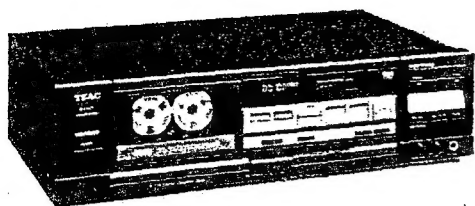



TEAC®



SERVICE MANUAL


V-770

Stereo Cassette Deck

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

CAUTION

△Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the appropriate parts list and ensure exact replacement.

- ドルビーノイズリダクションはドルビーラボラトリーズライセンシングコーポレーションからの実施権に基づき製造されています。
- ドルビー、DOLBY及びダブルD記号  はドルビーラボラトリーズライセンシングコーポレーションの登録商標です。

注意

△印は安全重要部品です。交換する時は必ずティアック指定の部品を使用してください。

1 SPECIFICATIONS

仕様

Track System 4-Track 2-Channel Stereo
 Heads 3: 1 Erase, 1 Record and 1 Playback
 (Combination)
 Type of Tape Cassette tape C-60 and C-90
 (Philips type)
 Tape Speed 4.76 cm/sec. (1-7/8 ips)
 Motors 3: 1 DC Servo capstan motor
 1 DC reel motor
 1 DC mechanism motor
 Wow and Flutter (WRMS) 0.03 %
 Frequency Response (Overall, -20 dB)
 20 - 21,000 Hz
 (25 - 20,000 Hz ± 3 dB), Metal
 20 - 19,000 Hz
 (25 - 19,000 Hz ± 3 dB), CrO₂
 20 - 18,000 Hz
 (25 - 17,000 Hz ± 3 dB), Normal
 Signal-to-Noise Ratio (Overall)
 60 dB (3 % THD Level, Weighted)
 70 dB (Dolby B NR in, over 5 kHz)
 80 dB (Dolby C NR in, over 1 kHz)

Fast Winding Time Approximately 80
 seconds for C-60
 Inputs Line: 87 mV, 40 kohms
 Outputs Line: 0.43 V for load impedance
 of 50 kohms or more
 Headphones: 8 ohms
 Power Requirements 120/220/240 V
 AC, 50/60 Hz
 (General export model)
 120 V AC, 60 Hz (USA/Canada)
 220 V AC, 50 Hz (Europe)
 240 V AC, 50 Hz (U.K./Australia)
 Power Consumption 17 W
 Dimensions (W x H x D) 435 x 120 x 265
 mm (17-1/8" x 4-3/4" x 10-7/16")
 Weight 4.9 kg (10-9/10 lbs) net

- Specifications were determined using metal tape except as noted.
- Improvements may result in specification or feature change without notice.

トラック形式	4トラック2チャンネル・ステレオホニク方式
ヘッド構成	消去ヘッド×1, 録音×1・再生×1 コンビネーション・ヘッド
使用テープ	C-60, C-90タイプ カセット・テープ
テープ速度	4.8センチ
モーター	キャプスタン: DC サーボモーター×1 リール: DC モーター×1 メカニズム: DC モーター×1
ワウ・フラッター	0.03% (W.RMS), $\pm 0.06\%$ (W.Peak EIAJ)
周波数特性 (総合)	20Hz - 21,000Hz (25Hz - 20,000Hz ± 3 dB, EIAJ): メタル 20Hz - 20,000Hz (25Hz - 19,000Hz ± 3 dB, EIAJ): クローム 20Hz - 18,000Hz (25Hz - 17,000Hz ± 3 dB, EIAJ): ノーマル
総合S/N比	60dB (NR OUT, 3% THDレベル, WTD) 70dB (ドルビーB NR IN 5kHz以上) 80dB (ドルビーC NR IN 1kHz以上)
早巻時間	C-60テープで約80秒
入力	ライン: 87mV (入力インピーダンス40k Ω 以上)
出力	ライン: 0.43V (負荷インピーダンス50k Ω 以上) ヘッドホン: 2mW/8 Ω
電源	100V AC, 50/60Hz
消費電力	17W
外形寸法	435(幅)×120(高さ)×265(奥行)mm
重量	4.9kg
付属品	入出力コード 2本(1組)

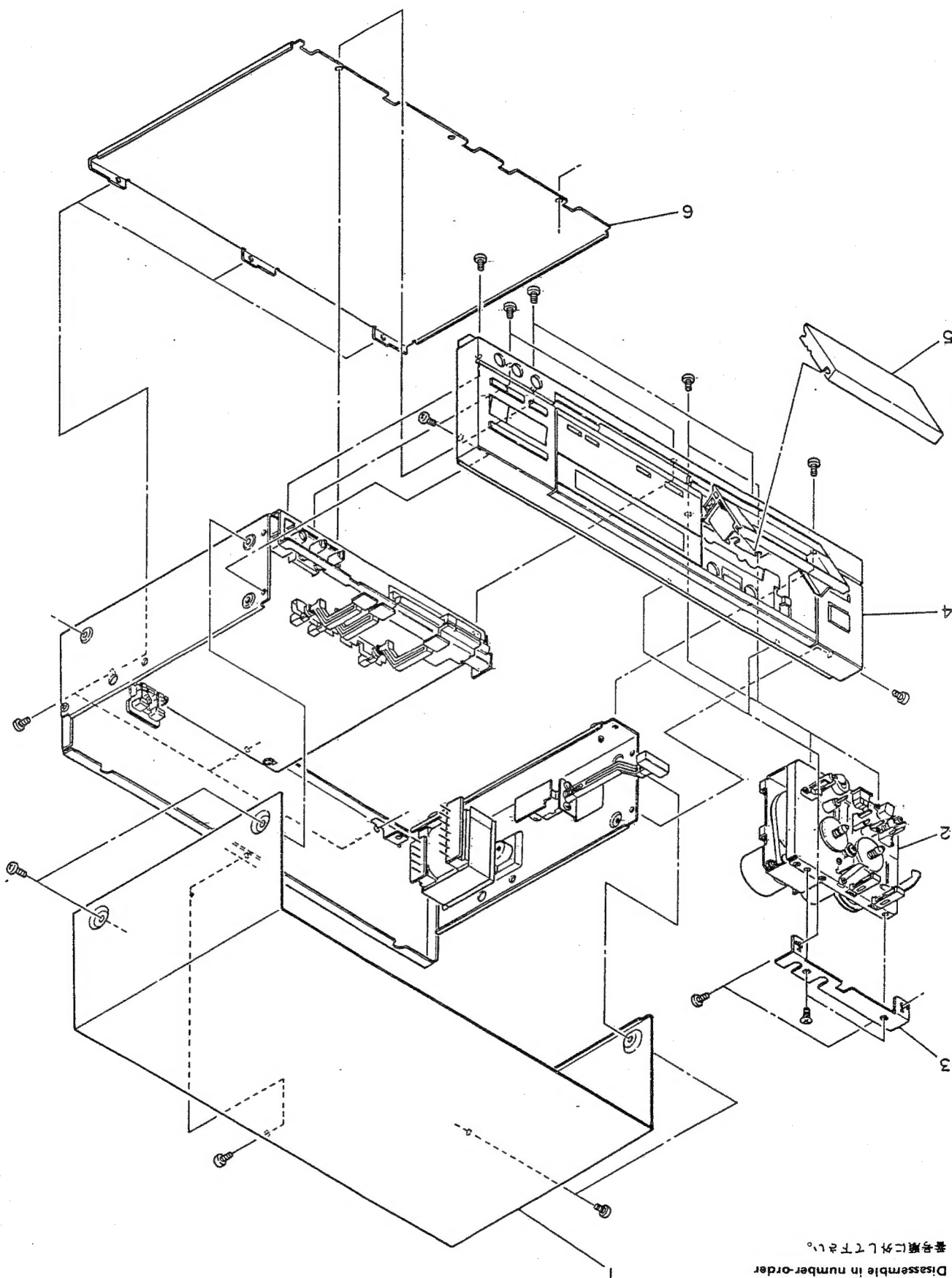
※この仕様は特に表示した項目を除き、当社基準テープを使用して測定したものです。
 ※仕様および外観は、改善のため予告なく変更することがあります。

Value of "dB" in the data refers to 0 dB (0.775 V), except where Specified.

本マニュアルの0 dB は0.775 Vを基準としています。

2 CASE AND FRONT PANEL REMOVAL

外装部品の外し方



Disassemble in number order
番号順に外して下さい。

3 PARTS LOCATION

部品配置図

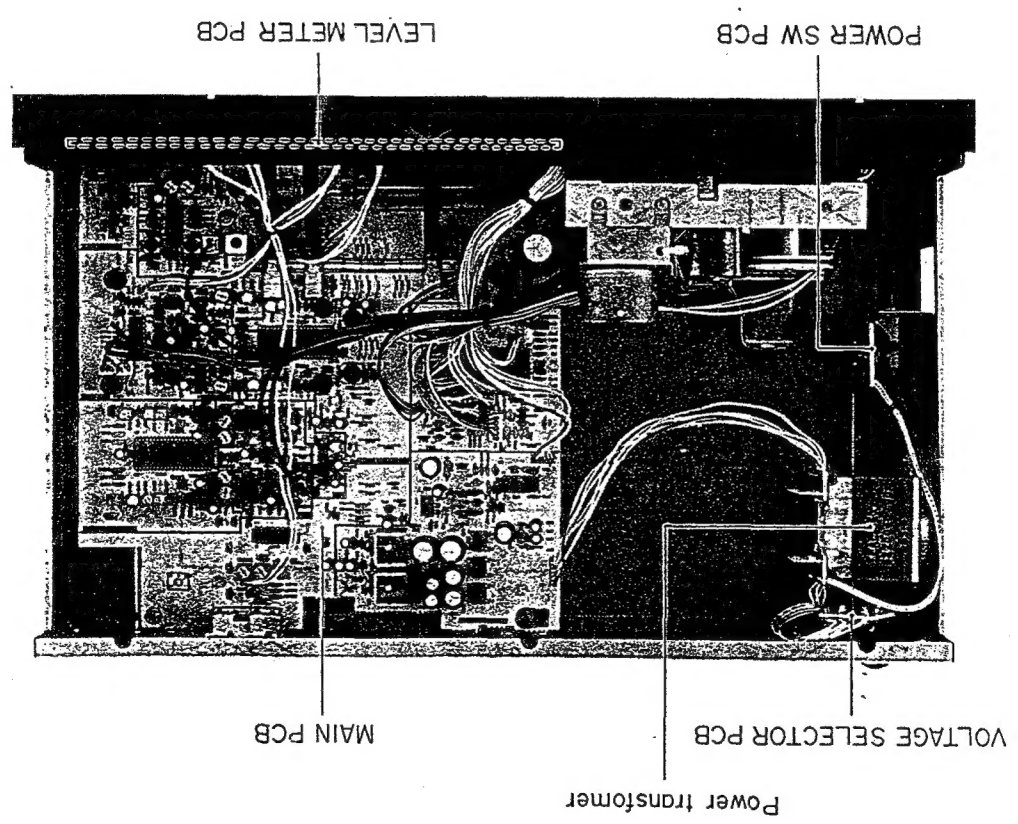


Fig. 3-1 Top view

Fig. 3-3 Transport rear view トランスポート後面図

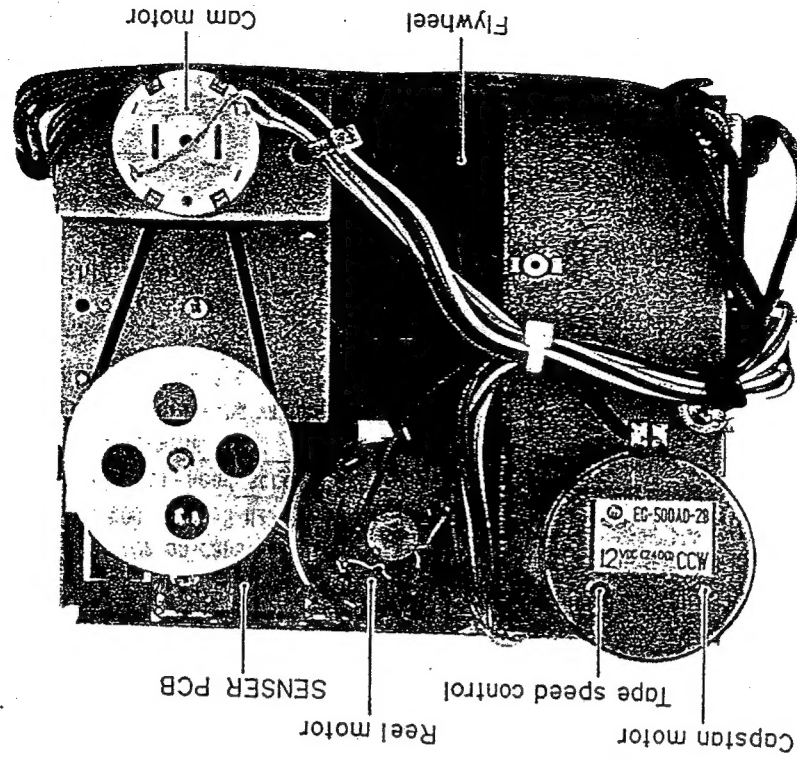
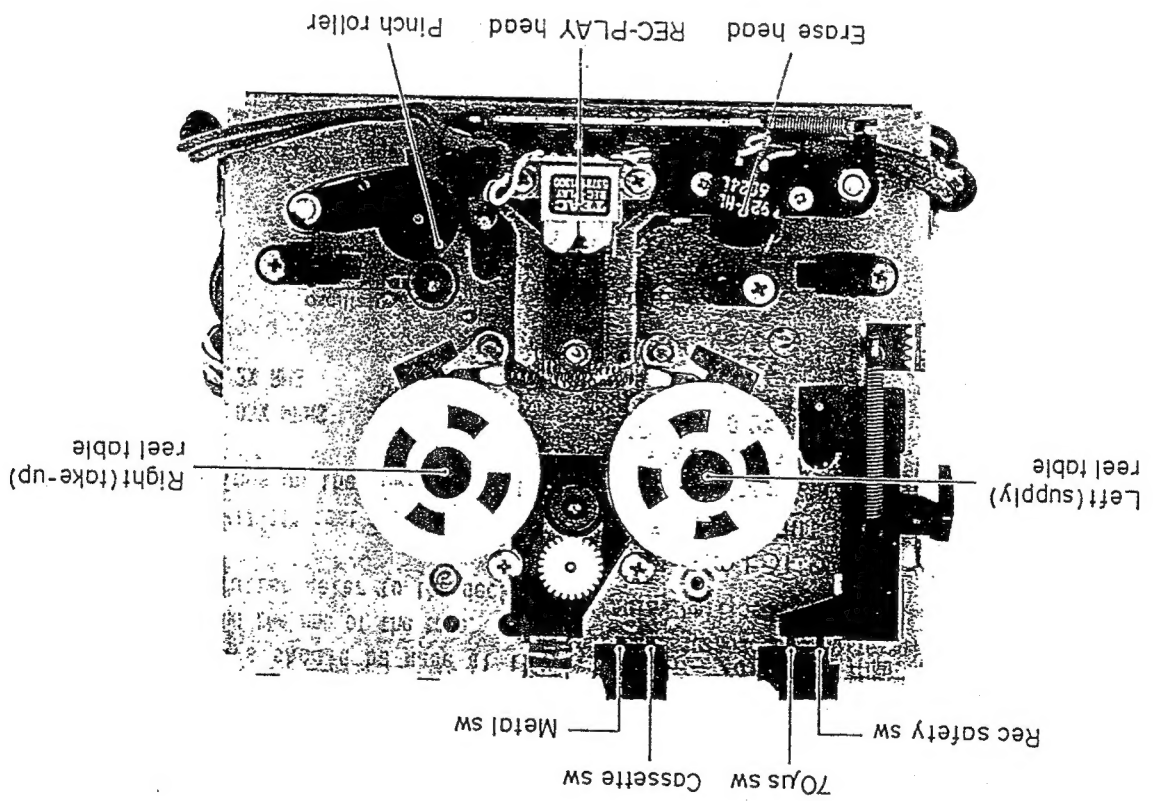


Fig. 3-2 Transport front view トランスポート前面図



4 MECHANICAL ADJUSTMENT AND CHECKS

機構部の調整と確認

4-1 ワウ・フラッター

4-1 WOW AND FLUTTER
(PLAYBACK METHOD)

(再生法)

Note: These measurements should be made at the beginning, middle, and the end of the tape.

1. Connect a wow-and-flutter meter to the deck as shown in fig. 4-1.
2. Load and play a TEAC HT-111 test tape.
3. Check that the readings on the wow-and-flutter meter are as follows.
Specifications: 0.05% WRMS
0.2% RMS

規格: 0.05% WRMS
0.2% RMS

1. 図 4-1 のようにワウ・フラッターメータを接続する。
2. ティートテープ HT-111 を再生する。
3. ワウ・フラッター値が下の規格内に入ることを確認する。

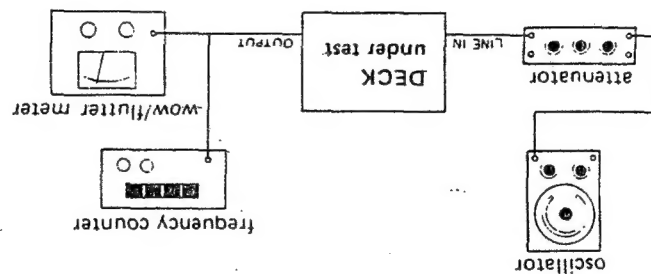


Fig. 4-1

4-2 TAPE SPEED

4-2 テープスピード

1. Connect a frequency counter to the deck as shown in fig. 4-1.
2. Playing the mid portion of an HT-111 test tape adjust the semi-fixed resistor on capstan motor so that tape speed becomes 3,000 Hz. ± 5 Hz. An insulated and non-metallic flat-head screwdriver should be used for this adjustment.
3. In play mode, check that the following values are obtained at the beginning and at the end of the tape.
Deviation: 3,000 Hz ± 45 Hz
Width of deviation: within 45 Hz

1. 図 4-1 のように周波数カウンタを接続する。
2. HT-111 ティートテープの中間部を再生して、テープ速度が 3,000 Hz ± 5 Hz になるようにキャプスタン・モータの半固定抵抗を調整する。調整には絶縁された非金属製スライダ・ドライバーを使用すること。
3. テープの巻始めと巻終りにて下記の値が得られることを確認する。
偏差: 3,000 Hz ± 45 Hz
変動幅: 45 Hz 以内

4-3 REEL TORQUE

4-3 リール・トルク

1. カセット型トルク・メータによる測定値が下表の範囲内

であることを確認する。

タイクアツ・トルク (FWD, REV 共):

30 ~ 55g・cm

バックテンション・トルク (FWD, REV 共):

2.5 ~ 6g・cm

早送り/巻戻しトルク:

100 ~ 160g・cm

1. Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the following specified values:

Specifications:

Take-up (both FWD/REV):

30 to 55 g・cm (0.42 to 0.76 oz・inch)

Supply (both FWD/REV):

2.5 to 6 g・cm (0.0347 to 0.08 oz・inch)

F.F./REW:

100 to 160 g・cm (1.53 to 2.22 oz・inch)

4-4 LUBRICATION

4-4 注油

- Lubrication is only required when parts are replaced. For this purpose, use the oil specified below.
1. Apply a drop of oil with an oil applicator to a point about 1/3 the way down the shaft (from the tree end) of flywheel, then insert the shaft into the capstan housing.

oil: TEAC spindle oil (from TEAC TZ-255 oil kit), Mobil D.T.E. oil light, or equivalent

1. フライホイールの先端から約1/3 下った軸面へ、注油器にてオイル 1滴を注油後、フライホイール軸をキャプスタンのハウジングへ挿入する。
- オイル: TEACスピンドルオイル (TEAC TZ-255オイルキットより) モービル D・T・E オイル・ライト又は相当品
- 注油は部品が交換される時のみ必要です。下記指定のオイルを使用すること。

4-5 VOLTAGE CONVERSION

(General Export Models only)

1. ALWAYS DISCONNECT THE POWER LINGE CORD BEFORE MAKING THESE ADJUSTMENTS!

2. locate the voltage selector on the rear panel.
3. Using a regular screwdriver, turn the selector until the numerals corresponding to the voltage requirements of your area appear.

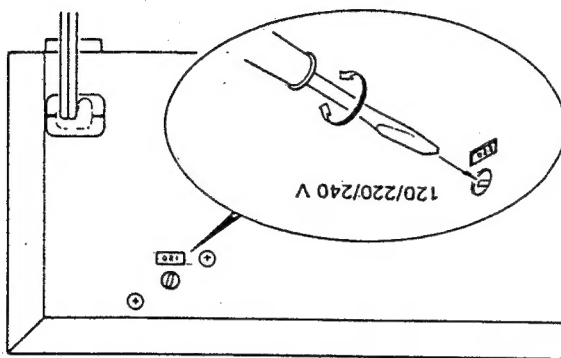
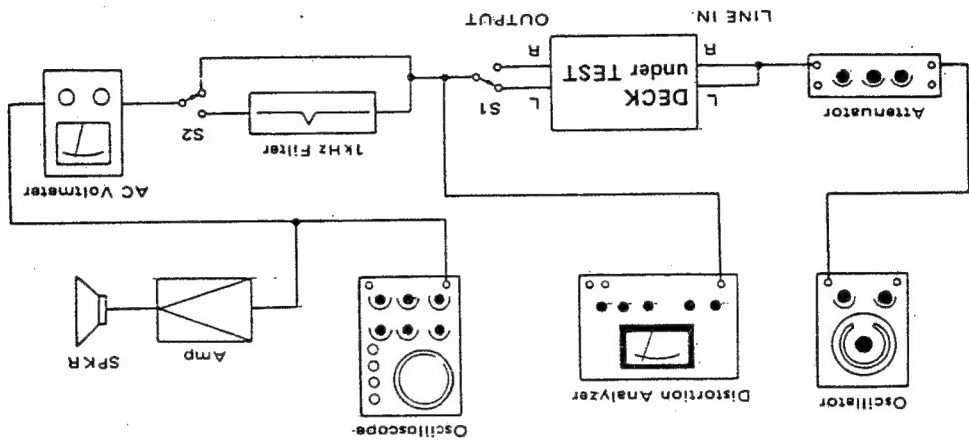


Fig. 4-2

Fig. 5-1 Basic test setup 基本測定接続図



1. Before performing adjustments and checks clean and demagnetize the entire tape path.
2. Make sure the deck is properly set for the voltage in your locality.
3. In general, adjustments and checks are made in the order of L-ch then R-ch. Double REF. Nos. indicate L-ch/R-ch. (Example; R11/R21)
4. 0 dB is referenced to 0.775 V. If an AC voltmeter that references 0 dB to 1 V is used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1 M-ohms or more.
6. Note the "Deck settings" at the top of each chart. The settings apply to all check for a specific chart unless explicitly stated otherwise.
7. Since this deck has an automatic tape selector, be sure to use test tapes that have tape position detecting holes.
8. Input terminals and measuring points at each step are the same as previous step, otherwise specified

5-1 PRECAUTIONS

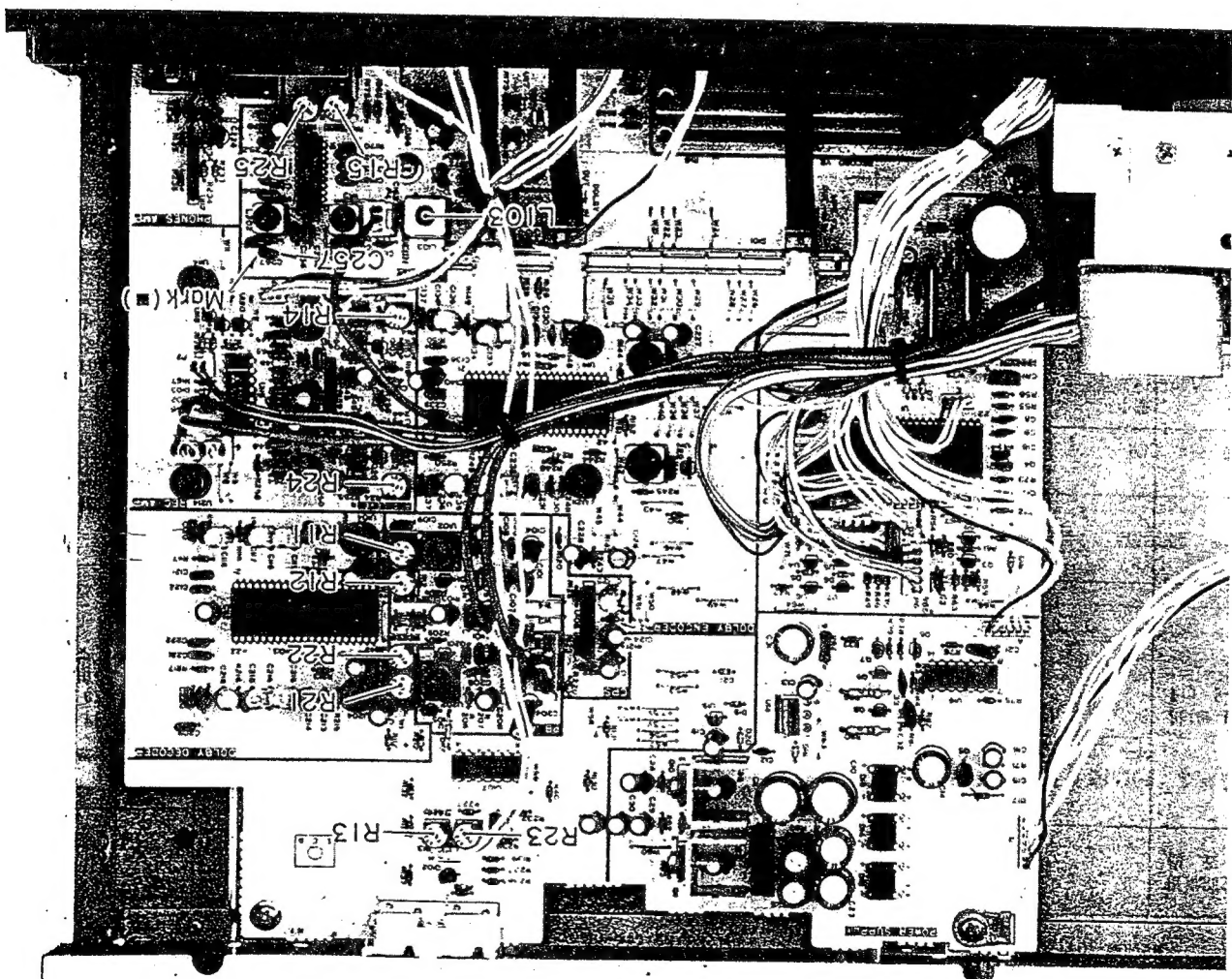
5-1 注意

テープ部の調整と確認

5 ELECTRICAL ADJUSTMENT AND CHECKS

1. テープ部の調整・確認の前に、テープ走行系の消磁と清掃を行なってください。
2. 特に指定の無い限り、調整はL ch, R chの順序で行なうて下さい。
3. 尚R11/R21のように記されている回路番号はL ch/R chを示します。
4. 0 dB = 0.775V
5. 測定に使用するレベル計の入カインピーダンスは1MΩ以上のものを使用してください。
6. 本機はテープ・セレクタ自動検出機構になっていますので、テスト・テープは必ずテープ・ポジション検出穴のあるものを使用して下さい。
7. 入力端子及び測定箇所は各テープに於いて特に明示されている場合を除き、直前のテープと同じです。

5-2 ADJUSTMENT LOCATIONS
調整箇所



R12/R22	Specified output level	規定出力レベル
R15/R25	Record bias	録音バイアス
R14/R24	Record level	録音レベル
R13/R23	PEAK LEVEL METER	ピーク・レベル・メータ
R11/R21	Playback frequency response	再生周波数特性
L103	Bias osc. frequency	発振用波数

FIG. 5-2

5-3 PLAYBACK PERFORMANCE 再生系

TEAC test tapes:
HTI-150: for Dolby level calibration
HTI-256: for playback frequency response
check for NORMAL
HTI-356: for METAL and CrO₂
HTI-5561: for S/N check for CrO₂
HTI-5511: for S/N check for NORMAL
Deck settings:
HPX FILTER SW: OUT
NR SYSTEM SW: OUT

調整項目	設定	INPUT SIGNAL	ADJUST (or CHECK)	測定箇所・調整値	備考
1. REC・PLAY head azimuth アジマス 録・再ヘッド	接続 Connection: Fig. 5-3	HTI-256 (10 kHz) HTI-150	アジマス調整ネジ 録・再ヘッドの (Fig. 5-6) of R-P head Azimuth screws Check OUTPUT: Phase: within 45° 位相: 45°以内	Phase between L-ch /R-ch: 0° Max. output at L- & R-ch's L-R間の位相差が0°で 且つ各ch共最大出力	Refer to Fig. 5-4
2. Specified output level 規定出力レベル	接続 Connection: Fig. 5-1	HTI-150	R12/R22	-5dB(436mV)	
3. Meter level メータ・レベル セッティング	"	HTI-150	R13/R23	PEAK LEVEL METER: 0 dB	
4. Playback frequency response 再生周波数特性	"	HTI-256	R11/R21	OUTPUT: Nearly equal output level at 315 Hz & 10 kHz 315 Hz & 10 kHz の出力がほぼ等しく なるよう調整 ・Standard 規格: Fig. 5-5	
5. Playback S/N ratio 再生S/N比	"	HTI-5561 (Playing a leader (リダーテープを 再生))	Check	46 dB min. 45 dB min.	Ratio of spec. output of -5 dB to noise 基準信号レベルは規 定出力(-5dB)レベル

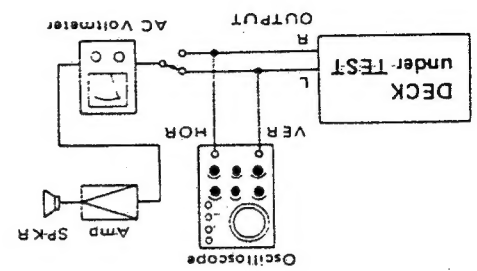


Fig. 5-3 Test setup for azimuth check
位相測定接続図

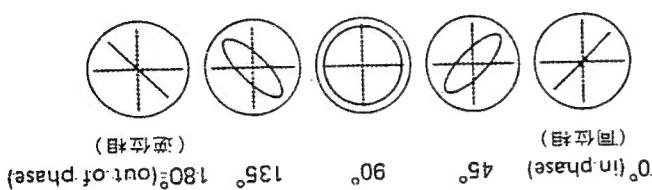


Fig. 5-4 Confirming phase relationship
位相

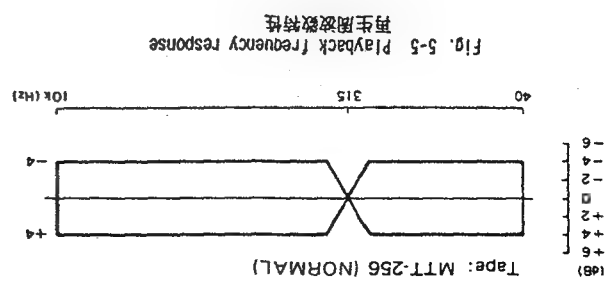
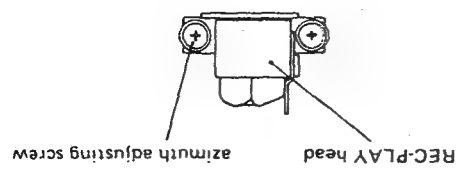


Fig. 5-6 Azimuth screw location

位相調整ネジ



5-4 MONITOR PERFORMANCE

モニター系

Deck settings: RECORD-PAUSE mode
NR SYSTEM SW: OUT
HPX FILTER SW: OUT

調整項目	設定	入力信号	調整箇所 (or CHECK)	測定箇所・調整値	備考
6. MIN. LINE LINE input level 入力レベル	接続 Connection: Fig. 5-1 RECORDING LEVEL CONT.: MAX	LINE IN: 400 HZ/-19dB (86.9mV)	Check	OUTPUT: -5dB \pm 3dB (308mV \sim 615mV)	
7. Specified LINE input level LINE規定入力 レベル	"	400 HZ/-9dB (275mV)	RECORDING LEVEL CONT. (L/R)*	-5dB (436mV)	* After adjusting, do not move (Specified position) 調整後は動かさないこと (規定位置)
8. PHONES -output level PHONES出力 レベル	接続 Connection: Fig. 5-7 PHONES L. CONT.: MAX	"	Check	PHONES: At each channel -15dB \pm 3dB (97.5mV \sim 195mV)	8 Ω load

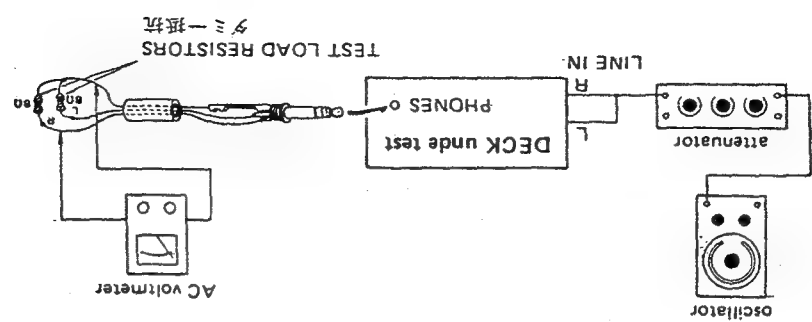


Fig. 5-7 Test setup for PHONES check

本機出力測定接続図

5-5 RECORDING PERFORMANCE

録音系

Deck settings:
NR SYSTEM SW: OUT
HPX FILTER SW: OUT
RECORD CONT. (L/R): Spec. position (item 7)
7項の規定位置
BIAS FINE CONT.: Center position
TEAC recording test tapes
HTT-5571 : for METAL
HTT-5561 : for CrO₂
HTT-5511 : for NORMAL

ITEM	整理項目	設定	INPUT SIGNAL	調整箇所 (or CHECK)	測定箇所・調整値 RESULT	備考
9. BIAS osc. frequency	発振周波数	接続 Tape: HTT-5571 Connection: Fig. 5-8 RECORD-PAUSE mode	no signal	L103	C257: ■ Mark □ 100kHz	Refer to Fig. 5-8
10. Record bias	録音バイアス	接続 Tape: HTT-5511 Connection: Fig. 5-1	LINE IN: 400Hz & 10kHz alternately/-42dB (6.15mV) Record and reproduce them. 両信号を交互に録音し 再生する。	R15/R25	OUTPUT: Nearly equal level at both frequencies 両周波数の録再出力差 が同程度になるよう調 整	Repeat if the result is un- satisfactory 不十分なら録再 を繰り返し調整
11. Record level	録音レベル	Tape: HTT-5511	400Hz/-12dB (195mV) Record and reproduce them. 信号を録音し、再生 する。	R14/R24	-8dB (308mV)	
		Tape: HTT-5571 Tape: HTT-5561 Tape: HTT-5511 NR SYSTEM: IN & OUT		Check	-8dB ± 3dB (218mV~436mV)	
12. Total harmonic distortion	総合歪率	Tape: HTT-5571 Tape: HTT-5561 Tape: HTT-5511	LINE IN: 400Hz/-12dB (195mV)	Check	HTT-5571: 2.0% or less HTT-5561: 2.0% or less HTT-5511: 2.5% or less	
13. BIAS FINE control check	BIAS FINE つまみ チェック	Tape: HTT-5511 BIAS FINE CONT: fully "—" position, then fully "+" position, 方向一杯、次に "+" 方向一杯	10kHz/-42dB (6.15mV)	Check	Measure output level (record playback) at "—" position then at "+" position 録再出力を "—" 方向と "+" 方向でそれ ぞれ測定する。 Variation between "—" and "+" positions: 5dB or more 以上	
14. Overall frequ- ency response	録音周波数 特性	Tape: HTT-5571 Tape: HTT-5561 Tape: HTT-5511	Required frequ- encies: 規格で必要とされる 周波数: -42dB (6.15mV)	Check	Standard: 規格 Fig. 5-9	
15. Overall S/N ratio	録音S/N 比	Tape: HTT-5571 Tape: HTT-5561 Tape: HTT-5511	1kHz/-9dB (275mV) no signal ↓	Check	OUTPUT: 45dB min. [METAL, CrO ₂] 44dB min. [NORMAL]	Ratio of specified output of -5dB to noise 基準信号レベル は規定出力 (-5dB)レベル

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT, RESULT	REMARKS
16. Erase efficiency 消去効率	<p>Connection is same as in Fig. 5-1, but engage 1-kHz filter. Record a 1-kHz signal. Rewind tape to midpoint of recorded portion. Erase the recorded portion with no input signal. Find the difference between the 1-kHz portion and the "no-signal" portion. Rewind Fig. 5-1, 1kHz B.P.F. 使用, 1kHz信号を録音後中間まで巻戻し一部を消去。未消去部分と消去部分の1kHz出力レベル差を測定。</p>	1kHz/1dB ↓ no signal	Check	<p>OUTPUT: 65dB min. ratio</p> <p>Ref. output level: +5dB (1.38V) 基準レベル: +5dB</p>	
17. REC HUTE function REC HUTE効果	<p>Connection: Fig. 5-1, but engage 1-kHz filter. Record a 1-kHz signal. Push REC HUTE button for several seconds. (At this time, make sure LED lights). Rewind and play the tape. Find the difference between the 1-kHz portion and the "no-signal" portion. 1kHz B.P.F. 使用, 1kHz信号を録音し、途中REC HUTE鍵を押して無信号部を作る。そのテープを再生し、録音部と無信号部の出力レベル差を測定。</p>	<p>1kHz/1dB ↓ no signal</p> <p>(0.869mV)</p>	Check	<p>65dB min. ratio</p> <p>Ref. output level: +5dB (1.38V) 基準レベル: +5dB</p>	
18. Channel separation チャンネル・セパレーション	<p>• Connection: Fig. 5-1, but do not connect LINE IN (R), and engage 1-kHz filter. Set the deck to record mode. Find the difference between the 1-kHz recorded portion (L-ch) and the "no signal" portion (R-ch). R-ch無接続。1kHz B.P.F. 使用, 1kHz録音部分(L-ch)と無信号録音(R-ch)の1kHz再生出力レベルの差を測定。</p>	<p>L-ch 125Hz/-9dB (275mV) R-ch No signal</p>	Check	<p>30dB min. ratio</p>	
19. Adjacent track crosstalk トラック間クロstalk	<p>• Connection: Fig. 5-1, but do not connect LINE IN (L) and OUTPUT (L). Check leakage level against the output reference of previously recorded portion. Invert tape and play R-ch track. R-chに125Hzを録音し、その再生出力を基準レベルとする。次にテープを反転し、再生したときのR-chの出力レベルとの差を測定。</p>	<p>L-ch No signal (275mV) R-ch 125Hz/-9dB</p>	Check	<p>40dB min. ratio</p>	
20. HPX FILTER effect 効果	<p>RECORD-PAUSE mode HPX FILTER SW: ON</p>	<p>LINE IN (275mV) 19kHz/-9dB</p>	Check	<p>OUTPUT: The level difference between OFF and ON positions on HPX FILTER switch HPX FILTERスイッチがOFF時とON時の出力レベル差 30 dB min.</p>	

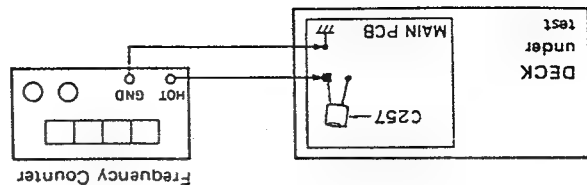


Fig. 5-8

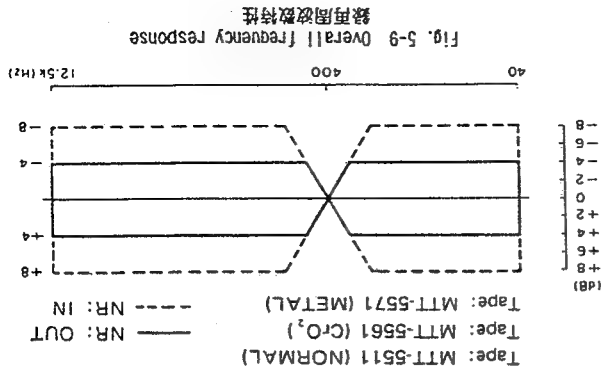
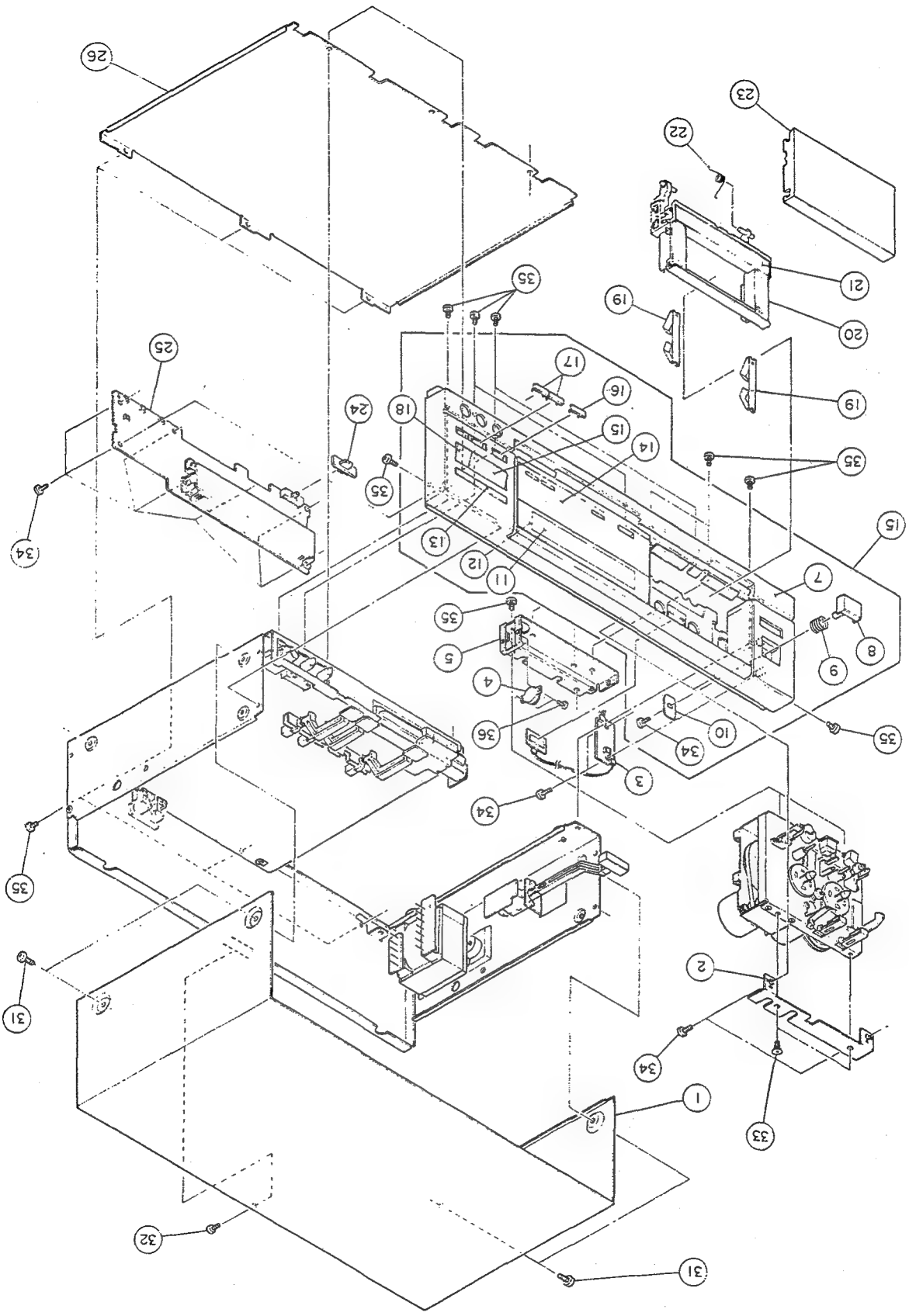


Fig. 5-9 Overall frequency response
録音周波数特性

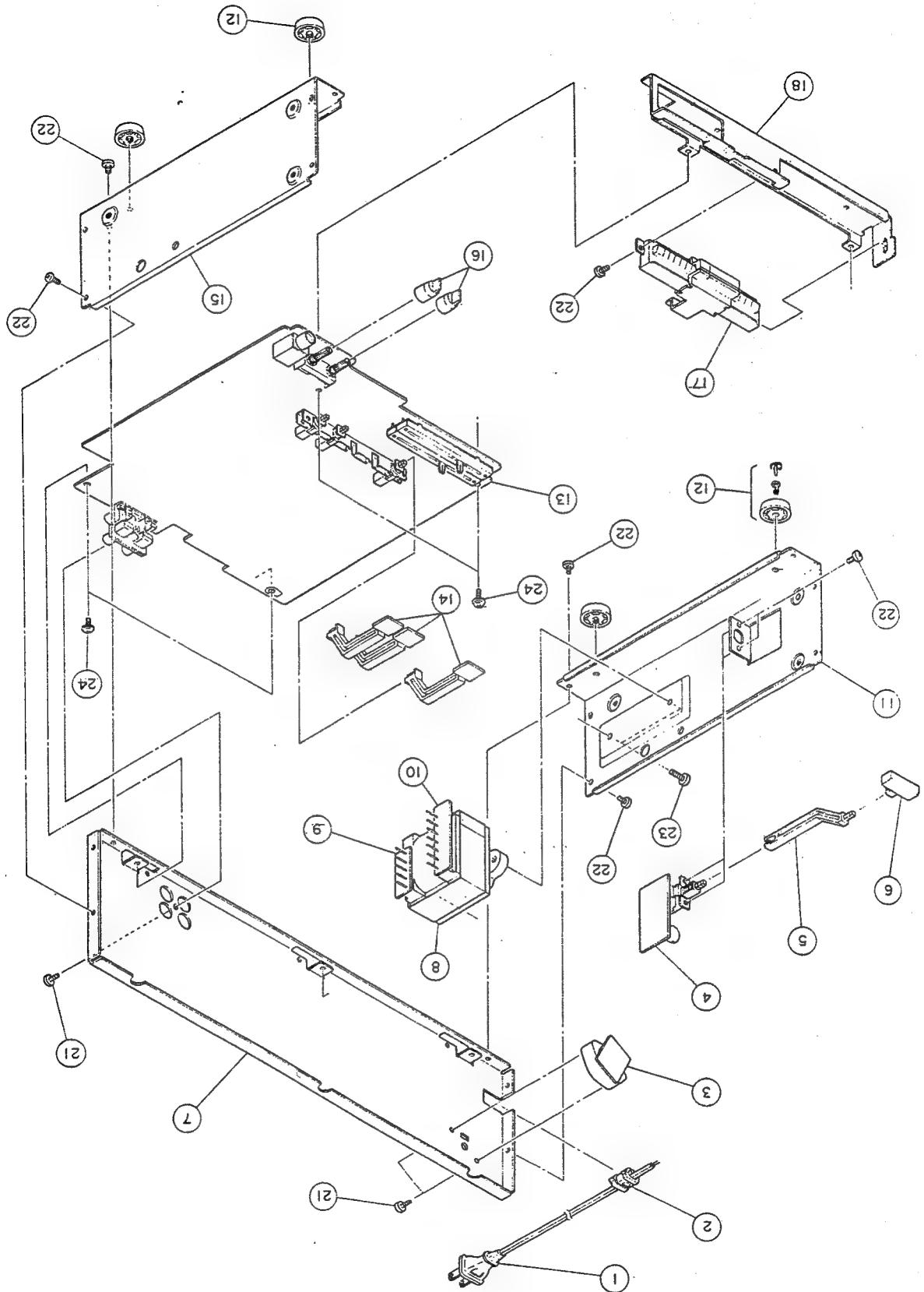


EXPLODED VIEW-1

6 EXPLODED VIEWS AND PARTS LIST
分解図とパーツ・リスト

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1-1	*5800809700	BONNET	
1-2	*5800820601	PLATE(B), MECHANISM	
1-3	*5200199600	EJECT SW PCB ASSY	Ref. Page 22 & 25
1-4	*5730012200	DAMPER ASSY	
1-5	*5800820500	PLATE(A), MECHANISM	
1-6	*5800820201	PANEL(D) ASSY, FRONT	
1-7	*5800820301	PANEL(D), FRONT	
1-8	5800806600	BUTTON(B), EJECT	
1-9	*5800784900	SPRING, EJECT	
1-10	*5800821300	BRACKET, EJECT	
1-11	*5800835100	WINDOW(A), METER	
1-12	*5800807000	SHEET, METER	
1-13	5800807700	BUTTON(D)	
1-14	*5800820400	SHEET(D), MODE	
1-15	5800834800	BUTTON(G)	
1-16	5800807800	BUTTON(E)	
1-17	5800807900	BUTTON(F)	
1-18	5800834900	BUTTON(H)	
1-19	5800603801	SPRING, CASS. PRESS.	
1-20	*5800820700	HOLDER(B) ASSY, CASSETTE	
1-21	*5800820800	SHEET(C), HOLDER	
1-22	*5800803601	SPRING, HOLDER UP	
1-23	5800821800	WINDOW(A), CASSETTE	
1-24	5800808201	KNOB	
1-25	*5200199500	LEVEL METER PCB ASSY	Ref. Page 24 & 26
1-26	*5800809600	COVER, BOTTOM	
1-31	*5800612400	SCREW, BONNET M3X8 BLK	
1-32	*5783613008	SCREW, C TITE M3X8 BNI	
1-33	*5783043006	SCREW, FLAT; S TITE M3X6	
1-34	*5783603008	SCREW, BIND; P TITE M3X8	
1-35	*5783033006	SCREW, BIND; S TITE M3X6	
1-36	*5780002004	SCREW, BIND M2X4	
INCLUDED ACCESSORIES			
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
*5700083500	OWNER'S MANUAL [J]		
*5700083600	OWNER'S MANUAL [EXCEPT J]		
*5350011600	CORD, IN-OUT 1.0M		

[US]:U.S.A. [E]:EUROPE [UK]:U.K. [C]:CANADA
[A]:AUSTRALIA [GE]:GENERAL EXPORT [J]:JAPAN

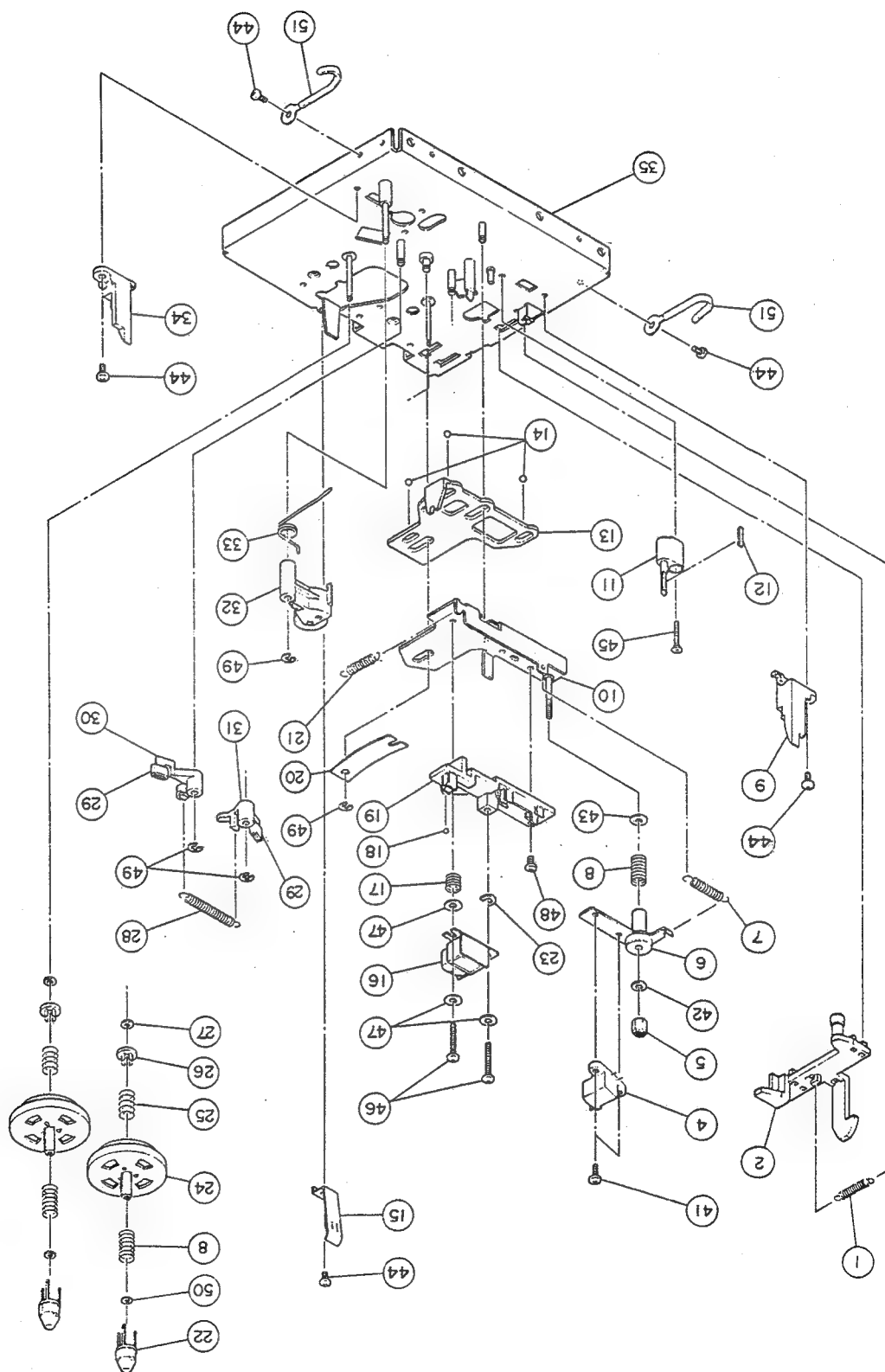


EXPLODED VIEW-2

EXPLODED VIEW-2

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	△*5128027000	CORD,AC [J]	
	△*5128047000	CORD,AC [UK]	
	△*5350008300	CORD,AC [A]	
	△*5350010800	CORD,AC [US,C,GE]	
	△*5350011700	CORD,AC [E]	
2- 2	△*5317003400	BUSHING 2271	
2- 3	*5200200000	VOLTAGE SELECTOR PCB ASSY [GE]	Ref. Page 22 & 25
2- 4	*5200199700	POWER SW PCB ASSY	Ref. Page 22 & 25
2- 5	*5800740500	ROD	
2- 6	5800752300	BUTTON,POWER(B)	
2- 7	*5800835000	PANEL(B),REAR	
2- 8	△ 5320040300	TRANSFORMER,POWER [J]	
	△ 5320040400	TRANSFORMER,POWER [US]	
	△ 5320040500	TRANSFORMER,POWER [C]	
	△ 5320040600	TRANSFORMER,POWER [E,UK,A]	
	△ 5320040700	TRANSFORMER,POWER [GE]	
2- 9	*5210199900	TRANSFORMER PCB EX [GE]	
2-10	*5210199800	TRANSFORMER PCB A	
2-11	*5800809400	CHASSIS L	
2-12	*5730003300	FOOT,FF-008(P4X6)	
2-13	*5200199400	MAIN PCB ASSY	Ref. Page 23 & 25
2-14	5800808300	BUTTON,PUSH	
2-15	*5800809300	CHASSIS R	
2-16	5800821900	KNOB(B),VR	
2-17	*5800808400	RAIL(A) ASSY,VR	
2-18	*5800809200	BRACKET,PCB	
2-21	*5783603008	SCREW,BIND P TITE M3X8	
2-22	*5783033006	SCREW,BIND S TITE M3X6	
2-23	*5781104016	SCREW,TAP,BIND M4X16	
2-24	*5783073006	SCREW,PAN CAP S TITE M3X6	

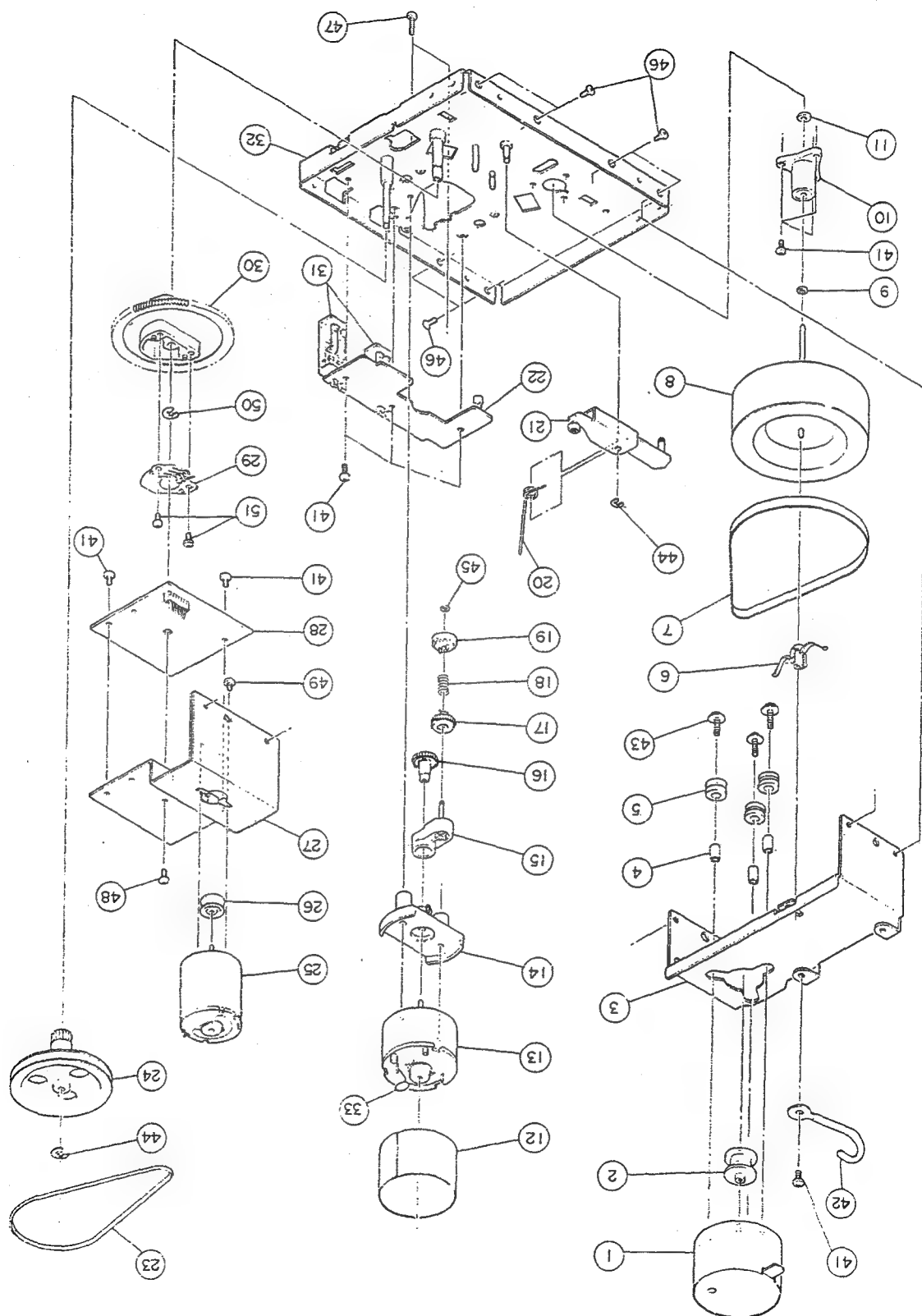
[US]:U.S.A. [E]:EUROPE [UK]:U.K. [C]:CANADA
 [A]:AUSTRALIA [GE]:GENERAL EXPORT [J]:JAPAN
 Parts marked with *require longer delivery time.



EXPLODED VIEW-3

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
3-1	*5800737200	SPRING, LOCK	
3-2	*5800821400	LEVER(B) ASSY, LOCK	
3-3	Vacant		
3-4	5378904300	HEAD, ERASE 4-4	
3-5	*5781953000	NUT, NYLON M3	
3-6	*5800234601	PLATE ASSY, HEAD	
3-7	*5800519001	SPRING, E. HEAD PRES.	
3-8	*5800231300	SPG., REEL	
3-9	5800821600	GUIDE(L), CASSETTE	
3-10	*5800235600	BASE SUB ASSY, HEAD	
3-11	*5800235100	HOLDER, PAD	
3-12	5800235201	PAD, HEAD	
3-13	*5800122802	SLIDER	
3-14	*5540056000	STEEL BALL 3MM	
3-15	5800734901	SPRING, CASSETTE	
3-16	5378901300	HEAD, R/P COMBINATION	
3-17	*5800114700	SPRING, HEAD ADJUSTMENT	
3-18	*5540055000	STEEL BALL 2MM	
3-19	*5800238303	HOLDER(B), HEAD	
3-20	*5800735000	SPRING, HEAD	
3-21	*5800455100	SPRING, ARM BASE	
3-22	5800236501	RING, DRIVE	
3-23	*5800468900	SPACER, HEAD	
3-24	5800735800	REEL TABLE ASSY	
3-25	*5800481901	SPRING, B. TENSION	
3-26	*5800231500	HOLDER, SPRING	
3-27	*5800539800	WASHER 1.7X4X0.3T	
3-28	*5800616100	SPRING, BRAKE	
3-29	*5800126401	SHOE, BRAKE	
3-30	*5800439701	ARM(R) BRAKE	
3-31	*5800439601	ARM(L) BRAKE	
3-32	5800239002	PINCH ROLLER ASSY	
3-33	*5800735601	SPRING, ARM; PINCH	
3-34	5800821700	GUIDE(R), CASSETTE	
3-35	*5800737300	CHASSIS ASSY, MECHANISM	
3-41	*5780002006	SCREW, BIND M2X6	
3-42	*5785313000	POLYSLIDER 3X6X0.5T	
3-43	*5785003000	FLAT WASHER, 3X8X0.5T	
3-44	*5783032606	SCREW, BIND; S TITE M2.6X6	
3-45	*5783042614	SCREW, FLAT; S TITE M2.6X14	
3-46	*5780002016	SCREW, BIND M2X16	
3-47	*5785012000	WASHER-2X6X0.5T	
3-48	*5780002005	SCREW, BIND M2X5	
3-49	*5786002000	E RING E-2 (JIS)	
3-50	*5785331100	POLYSLIDER 1.2X3.6X0.5T	
3-51	*5581038000	HARNES CLIP(A)	

Parts marked with *require longer delivery time.



EXPLODED VIEW-4

Parts marked with *require longer delivery time.

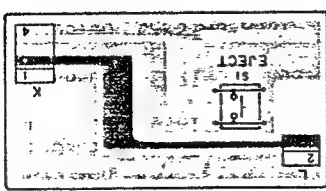
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
4-1	5370004200	MOTOR, C.DC	
4-2	5800232200	PULLEY, MOTOR	
4-3	5800737600	BRACKET(A), MOTOR	
4-4	5785603050	SPACER 3.0X5.0MM	
4-5	5534537000	CUSHION, RUBBER	
4-6	5800236900	BEARING, THRUST	
4-7	5800735500	BELT	
4-8	5800735100	CAPSTAN ASSY	
4-9	5800735300	WASHER, THRUST	
4-10	5800238800	HOUSING ASSY, CAPSTAN	
4-11	5800735401	WASHER, OIL RETAINER	
4-12	5800235900	PLATE, SHIELD	
4-13	5370002502	MOTOR, REEL; DC	
4-14	5800732601	HOLDER, MOTOR	
4-15	5800461500	ARM ASSY, PULLEY	
4-16	5800736000	PULLEY, GEAR(A)	
4-17	5800461600	PULLEY(B), ASSY, GEAR	
4-18	5800430200	SPRING, PULLEY	
4-19	5800430302	PULLEY ASSY	
4-20	5800630101	SPRING(B), BASE RETURNING	
4-21	5800736600	ARM ASSY, ACTUATING	
4-22	5200182200	SENSOR PCB ASSY	
4-23	5800772000	BELT	
4-24	5800117200	PULLEY, REDUCTION	
4-25	5370005100	MOTOR, DC	
4-26	5800123300	PULLEY, V	
4-27	5800737700	PLATE(B), MOTOR	
4-28	55210184100	PCB, CAM	
4-29	58000595300	PLATE, CONTACT	
4-30	5800737800	CAM, CONTROL	
4-31	5301753700	SW, LEAF	
4-32	5800737300	CHASSIS ASSY, MECHANISM	
4-33	5173395000	C, CERAMIC 0.047MF 50V	
4-41	5783032606	SCREW, BIND; S TITE M2.6X6	
4-42	55581038000	HARNESSE CLIP(A)	
4-43	5780142608	SCREW, PAN; SEMS B M2.6X8	
4-44	5786002000	E RING E-2 (JIS)	
4-45	57853331500	WASHER, POLIS. 1.5X4X0.5T	
4-46	5783042605	SCREW, FLAT; S TITE M2.6X5	
4-47	5780002617	SCREW, BIND M2.6X17	
4-48	5780002005	SCREW, BIND M2X5	
4-49	5780002603	SCREW, BIND M2.6X3	
4-50	5786003000	E RING E-3 (JIS)	
4-51	5781112004	SCREW, TAP; BIND M2X4	

EXPLODED VIEW-4

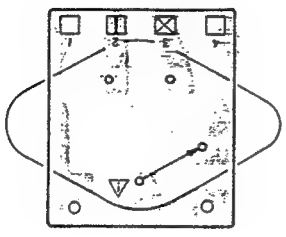
7 PC BOARDS AND PARTS LIST

基板図とパーツ・リスト

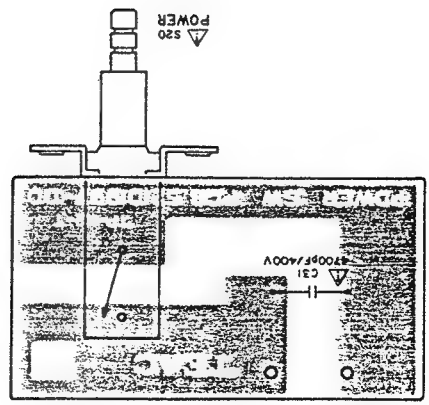
EJECT SW PCB ASS'Y



VOLTAGE SELECTOR PCB ASS'Y



POWER SW PCB ASS'Y



NOTES

1. PC boards are shown viewed from foil side.
2. The colors on the PC board illustrations have the following significance:
 - : +B power supply circuit
 - : -B power supply circuit
 - : GND
 - : other
3. Resistor values are in ohms (k=kilo-ohms-M=megohms).
4. All capacitor values are in microfarads (p=picofarads).
5. Δ Parts marked with this sign are safety critical components. They must always be replaced with identical components. Refer to the appropriate parts list to ensure exact replacement.

- 注
1. 基板図はパターン面が示されています。
 2. プリント・パターンは次のように色別されています。
 - : +B電源回路
 - : -B電源回路
 - : GND
 - : その他の回路
 3. 抵抗の単位はΩ (k=kΩ, M=MΩ) です。
 4. コンデンサの単位はμF (p=pF) です。
 5. Δマークのある部品は安全重要部品です。交換するときは必ずライオン指定の部品を使用してください。

Parts marked with *require longer delivery time.

[GE]:GENERAL EXPORT

Note
As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings included in this brochure.

REF.NO.	PARTS NO.	DESCRIPTION
Q001	5228010400	PHOTO REFLEC., NJL5141E-B
	*5200182200	SENSOR PCB ASSY
	*5210182200	SENSOR PCB
	*5800735900	SPACER

SENSOR PCB ASSY (PC Board Omitted)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200200000	VOLTAGE SELECTOR PCB ASSY
	*5210200000	VOLTAGE SELECTOR PCB
	*53332016300	VOLTAGE SELECTOR FS9078B

VOLTAGE SELECTOR PCB ASSY [GE]

REF.NO.	PARTS NO.	DESCRIPTION
D001	5225015100	LED, SLF301C
	5302103200	SM, TACT KHH10910
S001	5224014400	EJECT SM PCB ASSY
	*5210199600	EJECT SM PCB

EJECT SM PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
C031	*5210199700	POWER SM PCB ASSY
	*5267703800	SPARK KILLER, 4700PF400V M
S020	*5300031900	SM, PUSH 1-1

POWER SM PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200199400	MAIN PCB ASSY
	*5210199400	MAIN PCB
	*55555590000	PLATE, PCB EARTH; A
	*5800834700	HOLDER, VR
	*5800752900	HEAT SINK
	*5783603008	SCREW, BIND P TITE M3X8
C001	5347000900	CERAMIC OSC KBR-800H
D002-D008	5224015020	DIODE, 1SS133T-77
	5224572001	DIODE, ZENER RD3.3EL2 FR
	5224573801	DIODE, ZENER RD6.2EL2 FR
D010	5224575701	DIODE, ZENER RD11EL2 FR
D011	*5224014400	DIODE, SM-1A-02 LFA
D012	*5228010700	SILICON STACK, S1WB8(A)20
D013-D015	5224015020	DIODE, 1SS133T-77
D016	5224544901	DIODE, ZENER RD22EB1 FR
D017	5224015020	DIODE, 1SS133T-77
D018-D021	5224015020	DIODE, 1SS133T-77
D101	5224012920	DIODE, 1S2473
D102, D103	5224015020	DIODE, 1SS133T-77
J009	5330012200	JACK, 3P
J010	5330510600	PIN JACK 4P
L101, L201	5286008700	COIL, CHOKE 8.2MH
L102, L202	5286025700	COIL, STEP UP
L103	5286026000	OSC COIL 100KHZ
L104, L105	5286006700	COIL, CHOKE 1.2MH
P001	5336135600	CON, PLUG 8263-0612 RED
P002	5336126200	CON, PLUG 8263-0212 WHT
P003	5336126600	CONNECTOR PLUG WHT
P004	5336126300	CONNECTOR PLUG WHT
P005	5336137600	CONNECTOR PLUG BLK
P006	5336126500	CONNECTOR PLUG WHT
P007	5336126400	CONNECTOR PLUG WHT
P008	5336135400	CONNECTOR PLUG RED
Q002-Q004	5230780920	SI, TR, 2SC2603F
	5231761300	SI, TR, 2SD734F
Q006	5230018920	SI, TR, 2SA1115F
Q007	5230018920	SI, TR, 2SA1115F
Q008, Q009	5230780920	SI, TR, 2SC2603F
	*5231756200	SI, TR, 2SD882-Q P
Q010	*5230508900	SI, TR, 2SB772P
Q101, Q201	5230780920	SI, TR, 2SC2603F
Q102, Q202	5231761400	SI, TR, 2SD1302S
Q103, Q203	5230780920	SI, TR, 2SC2603F
Q104	5230780920	SI, TR, 2SC2603F
Q105	5230780920	SI, TR, 2SC2603F
Q106	5230018920	SI, TR, 2SA1115F
R11 R21	5280021704	R, TRIMMER 47KB H.
R12-R22	5280021304	R, TRIMMER 10KB
R13 R23	5280021704	R, TRIMMER 47KB H.
R14 R24	5280021304	R, TRIMMER 10KB
R15 R25	5280021304	R, TRIMMER 10KB
R16	5284010202	VR, 50KAX2 SLIDE
R17	5282411800	1S2UVR 9, 20KAX2
R18	5282016300	1S1UVR 9, 5KB
R065-R068	*5241215510	R, NONFLAMMABLE 10 J FF
	*5241182910	R, INCOMB. 4.7 OHM 1W J

MAIN PCB ASSY

Parts marked with *require longer delivery time.

Note
As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings included in this brochure.

REF.NO.	PARTS NO.	DESCRIPTION
RO80, RO85	Δ5241217110	R., NONFLAMMABLE 1W 47 Ω
RO94	Δ5181986000	R., INCOMBUSTIBLE 33
S101	5300043600	SWITCH, PUSH PSE053AF
U001	5220806601	IC., LC6510C-3033
U002, U003	5220427800	IC., BA6209
U004-U013	5222252520	TR., DIGITAL RT1N241S
U014	5220430300	IC., L78MR05
U015	5222252620	TR., DIGITAL RT1P241S
U016	5220040400	IC., M401BP
U017	5220425800	IC., M5230LA
U101	5220426900	IC., M5220P
U102, U202	5222805700	FILTER, LOWP, 100KHZ
U103	5220427000	IC., CX20187
U104, U204	5222806000	FILTER, L.P. 19.8KHZ
U105	5232252520	TR., DIGITAL RT1N241S
U106	5220426200	IC., M51143AL
U107	5220021600	IC., M4066BP
U108	5220427000	IC., CX20187
U109, U209	5232252520	TR., DIGITAL RT1N241S
U110, U210	5292805600	FILTER, LOWPASS MPX
U111, U211	5292806000	FILTER, L.P. 19.8KHZ
U112	5220416200	IC., M5218L
U113	5220416200	IC., M5218L
U114, U214	5292805900	FILTER, LOWPASS 100KHZ
U115	5220039100	IC., AN6256
U116	5220430400	IC., UPCL297CA
U117-U120	5232252520	TR., DIGITAL RT1N241S

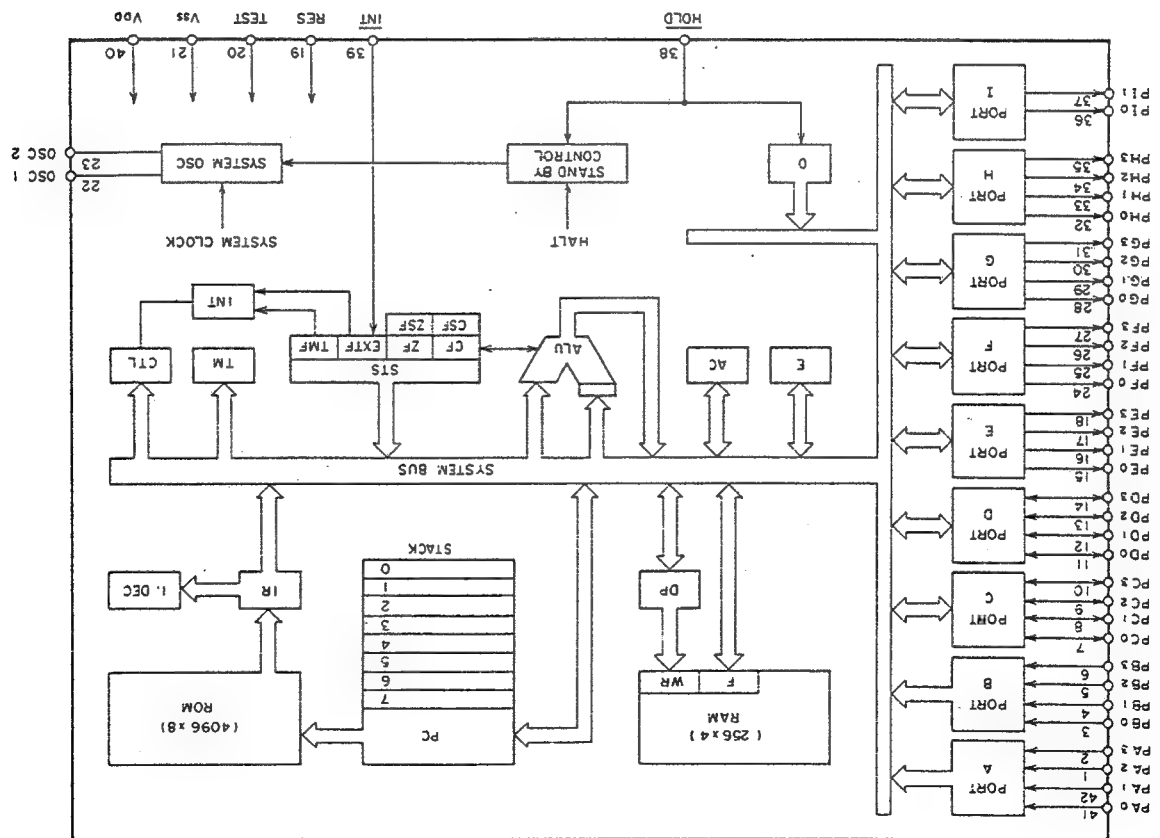
REF.NO.	PARTS NO.	DESCRIPTION
	*5200199500	LEVEL METER PCB ASSY
	*5210199500	LEVEL METER PCB
	*5800809100	HOLDER, METER
D022-D036	5224012920	DIODE, 1S2473
FLO1	5347004000	FL TUBE F1P60AW12Y
S002	5300909600	SW., SLIDE 2-3
S003-S013	5302103200	SW., TACT KHH10910
S014	5302102000	SW., TACT KHL15910
S015, S016	5302103200	SW., TACT KHH10910
U018	5232253200	TRANSISTOR ARREY LB1245
U019	5232252900	TR., ARRAY LB1290
U121	5220041000	IC., HA12067NT

LEVEL METER PCB ASSY

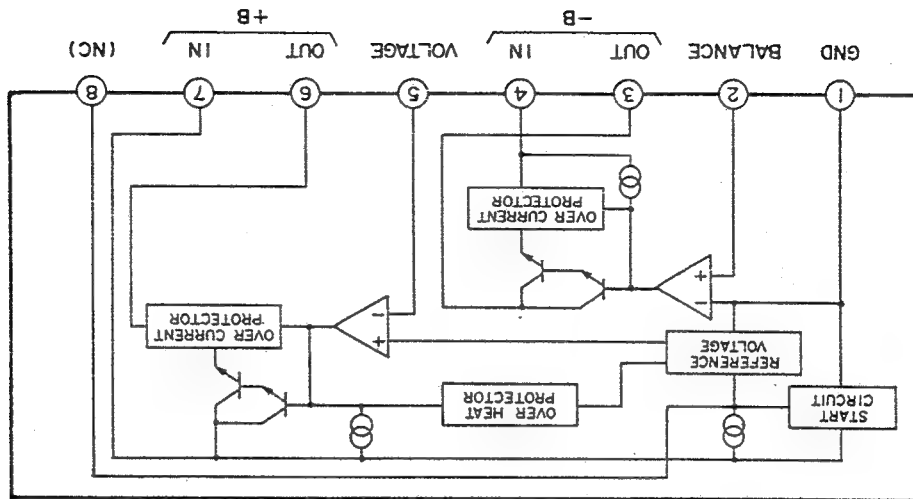
MAIN PCB ASSY

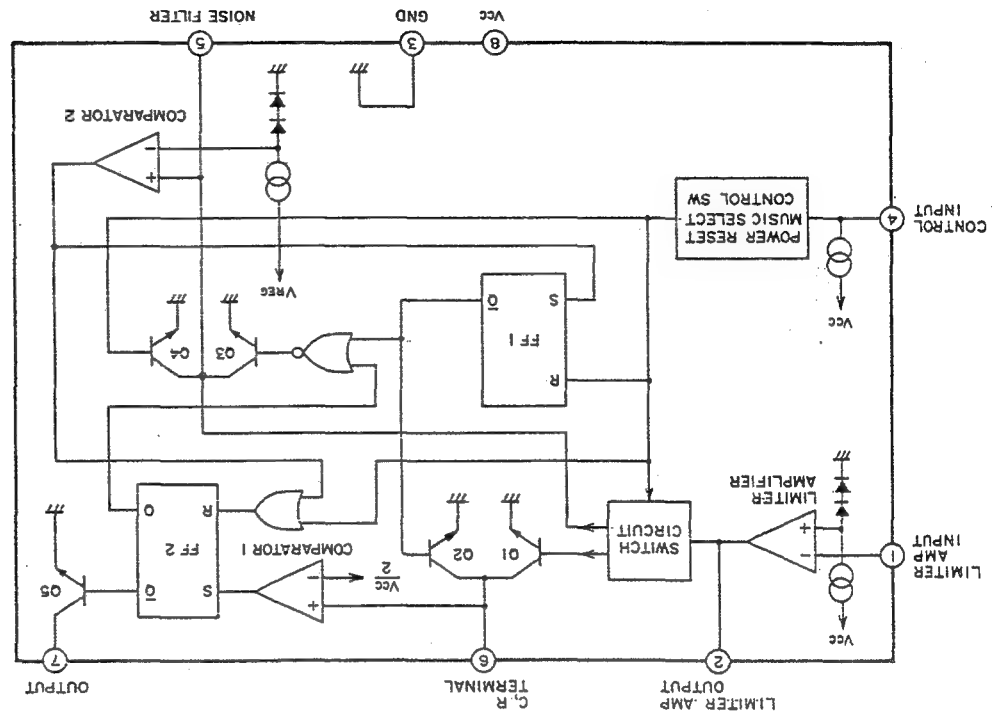
75441.6.66.0.001

LC6510C-3033

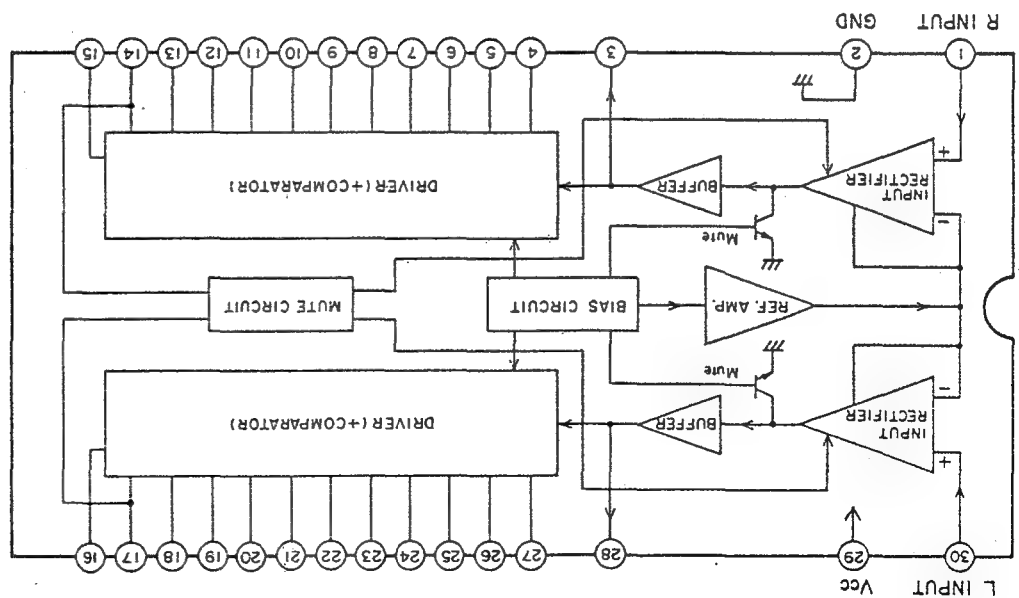


M5230LA





HA12067NT

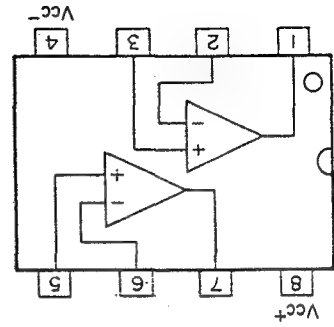


M51143AL



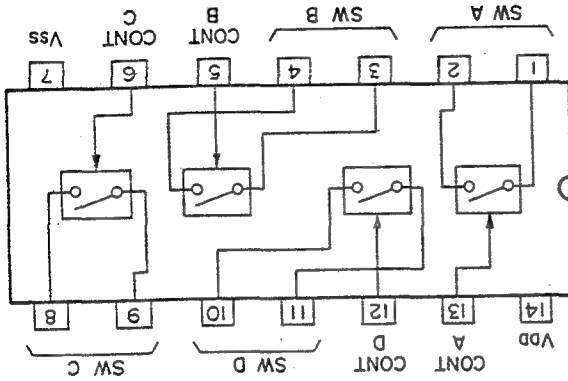
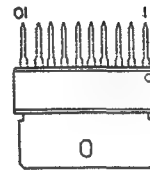
A	B	N1	N3	N4	N5	C1	C3	M1	M3	TAPE
L	L	L	L	H	H	H	H	H	H	NORMAL
L	H	H	H	L	L	L	L	L	L	TAPE
H	L	L	H	H	L	L	L	H	H	CROZ
H	H	H	H	H	L	L	H	L	L	METAL



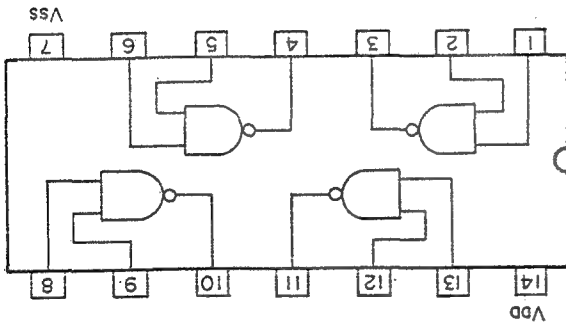


MS220P

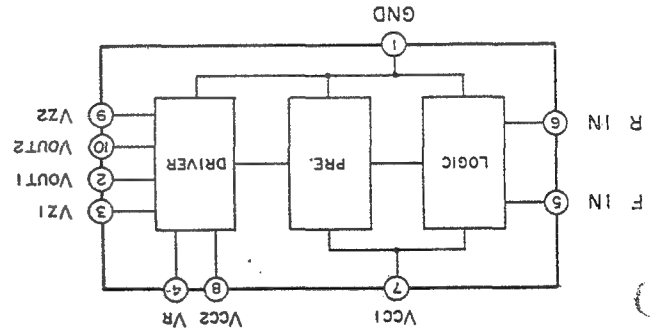
L	L	L	L	L
H	L	H	L	H
L	L	H	L	L
H	H	L	H	L
F IN	R IN	VOUT1	VOUT2	



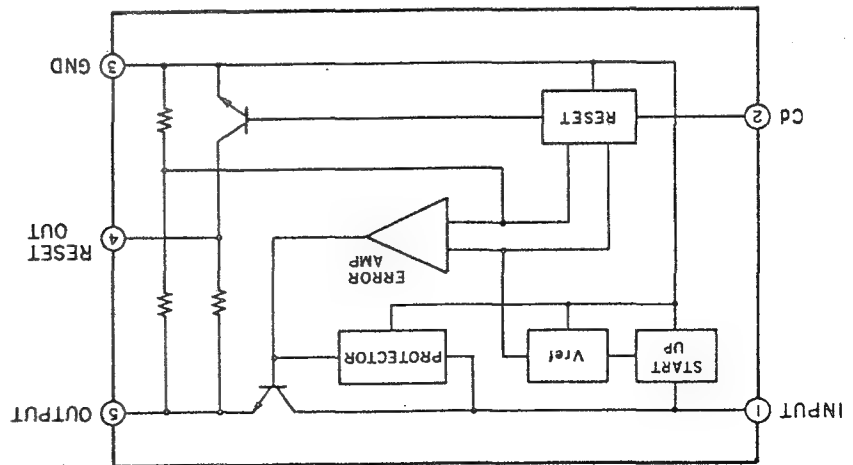
M4066BP



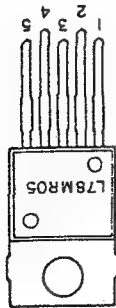
M4011BP

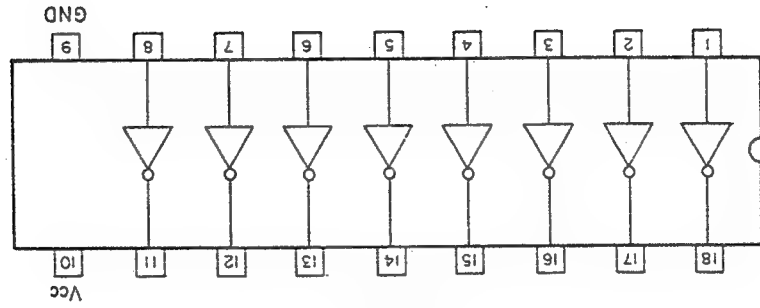


BA6209

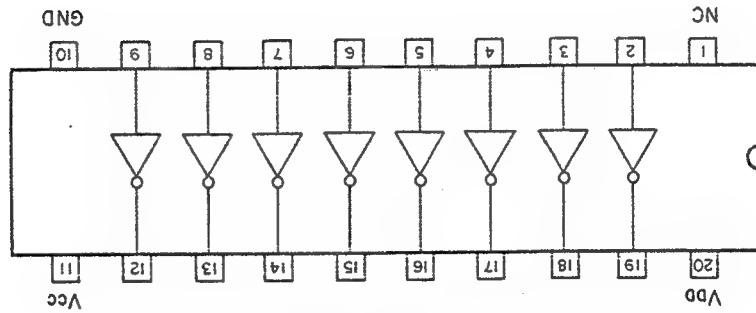


L78MR05

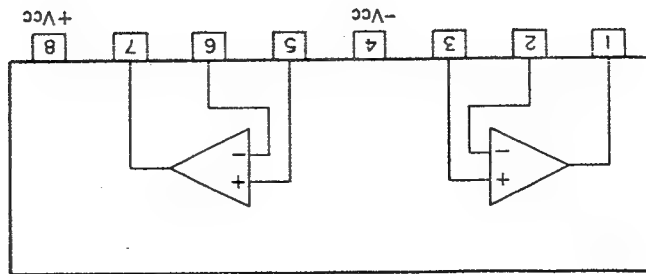




LB12290
(transistor array)

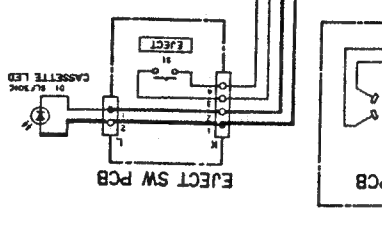
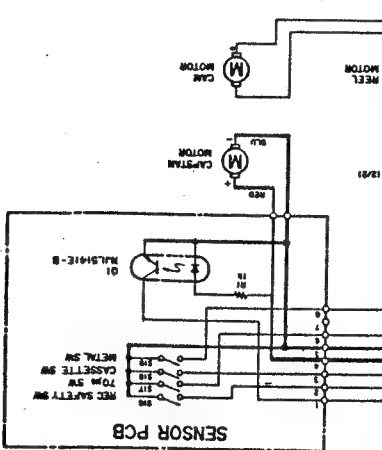
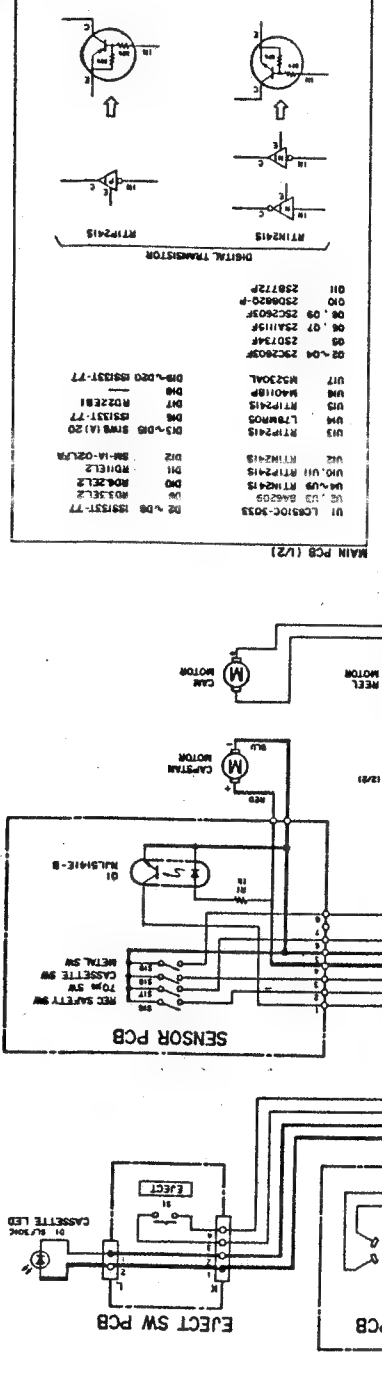
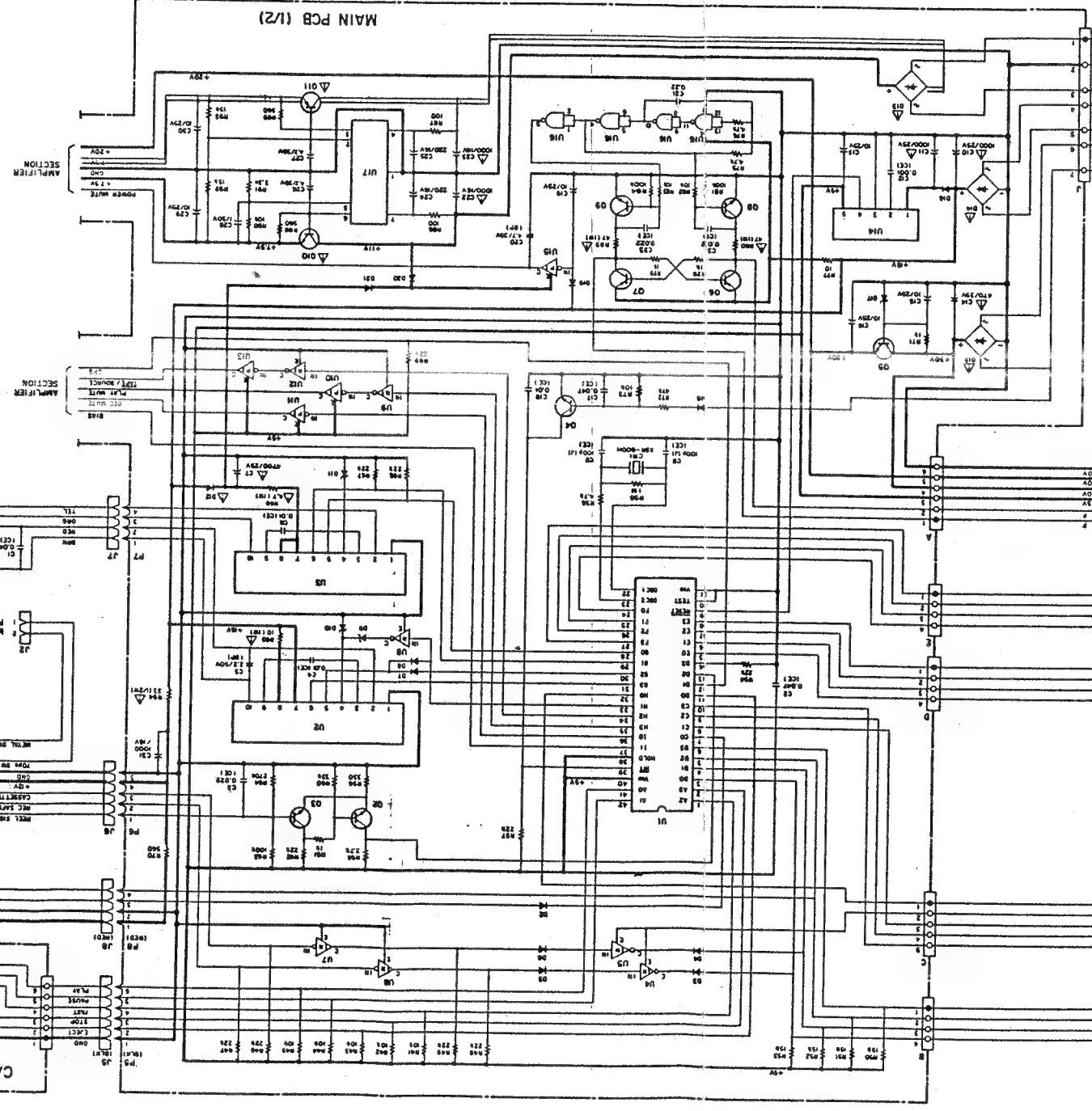
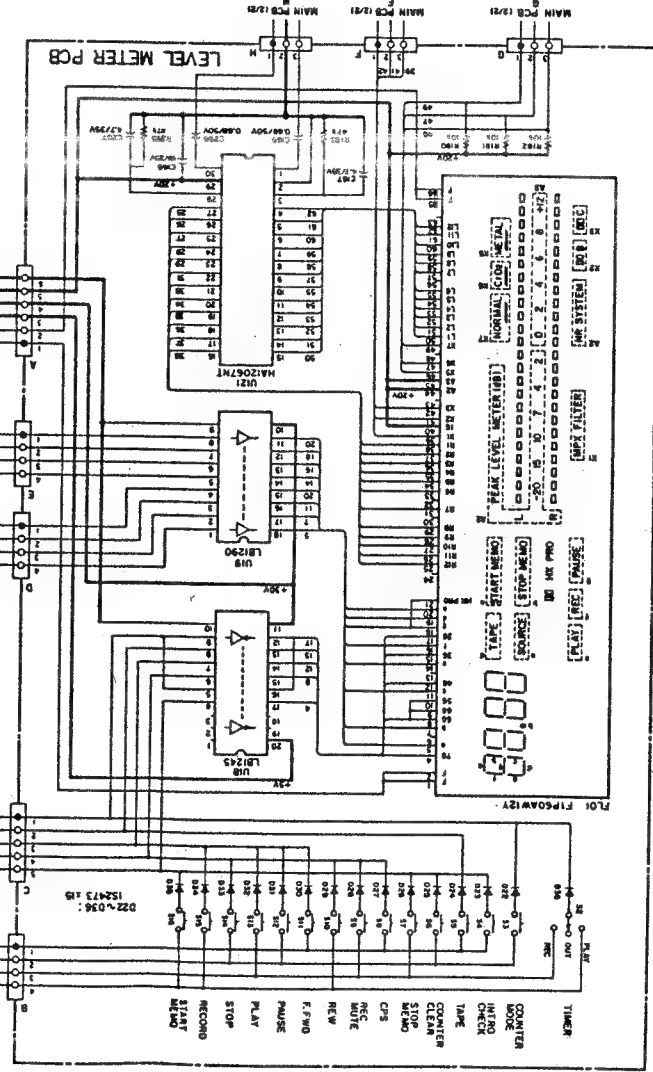
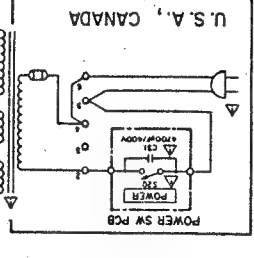
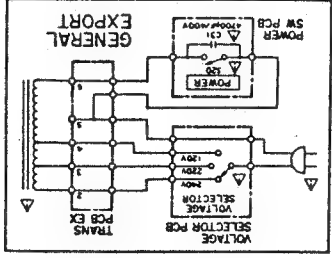
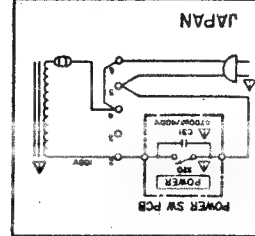
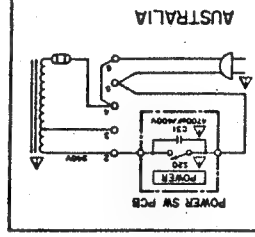
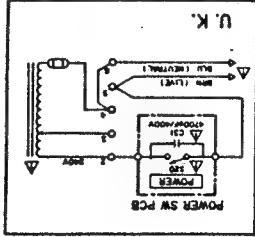
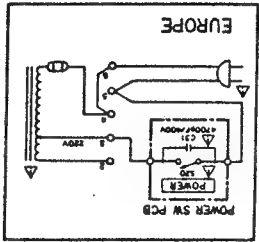


LB1245
(transistor array)

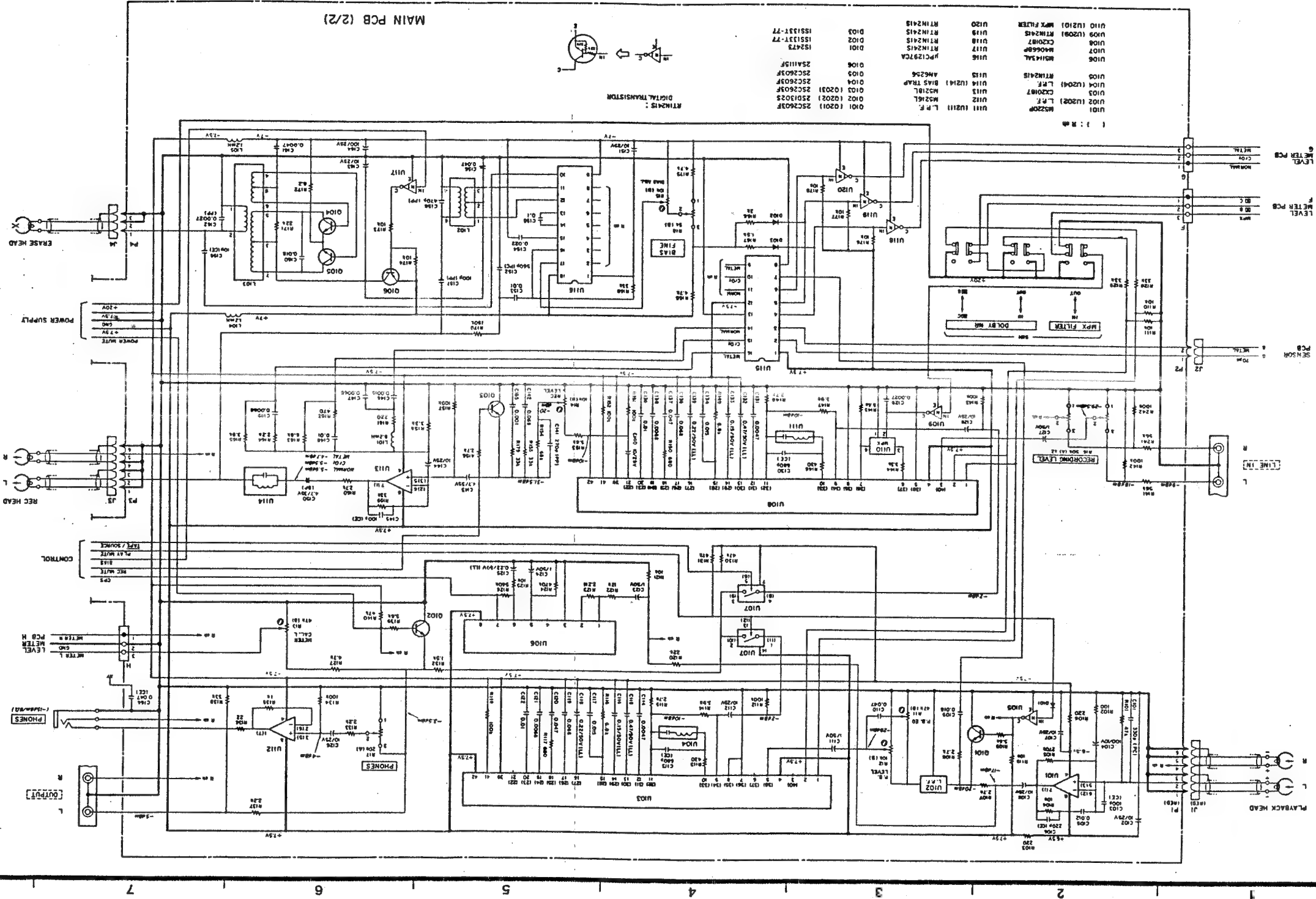


M5218L

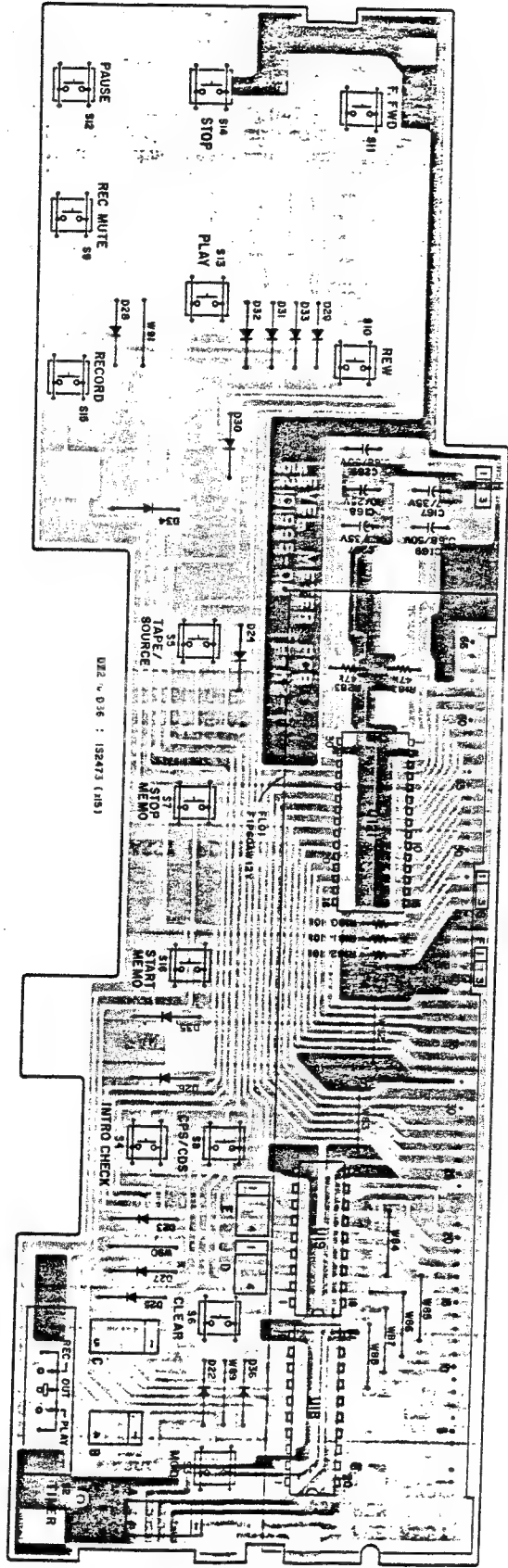
TEAC SCHEMATIC DIAGRAM V-770



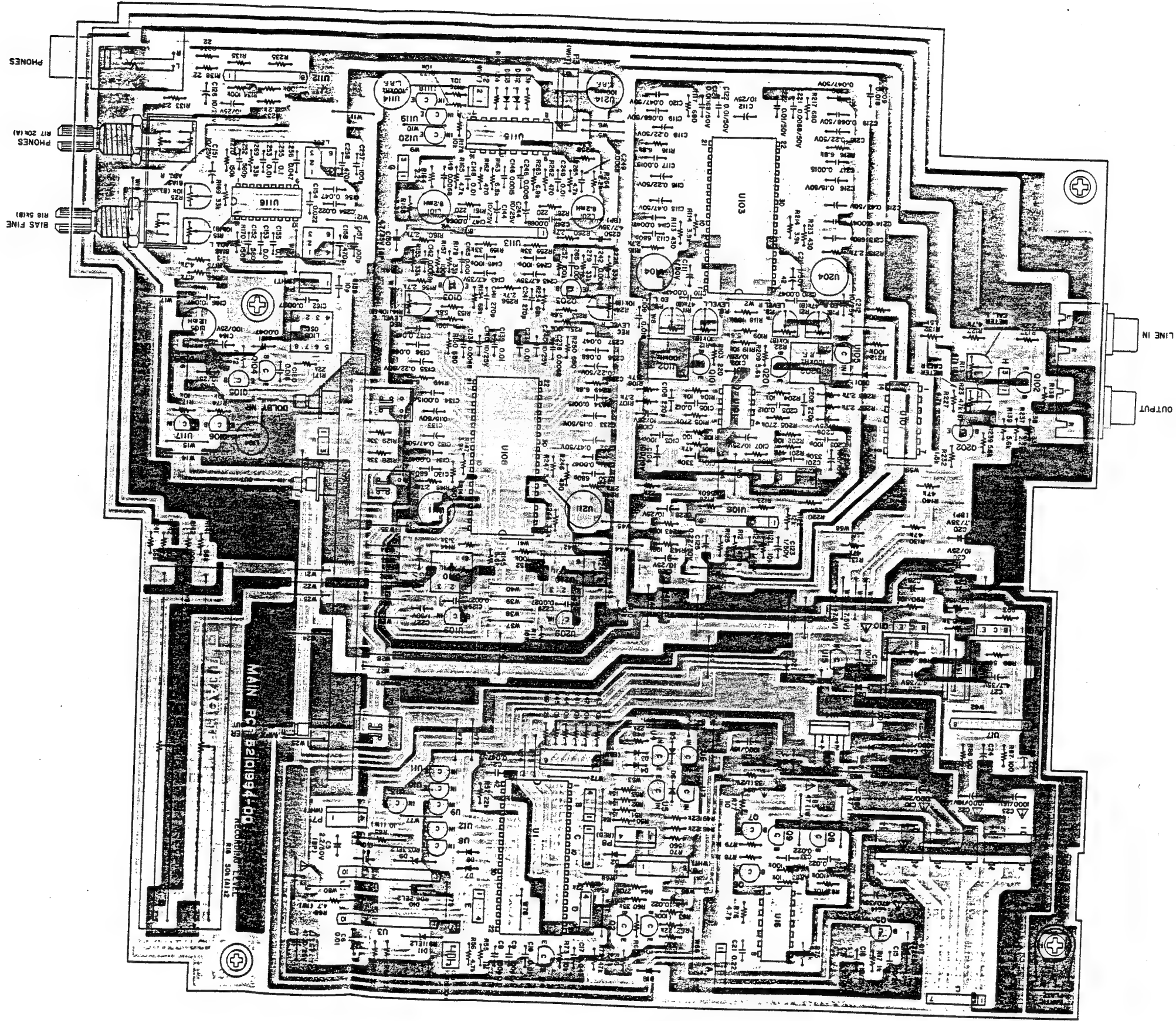
TEAC SCHEMATIC DIAGRAM V-770



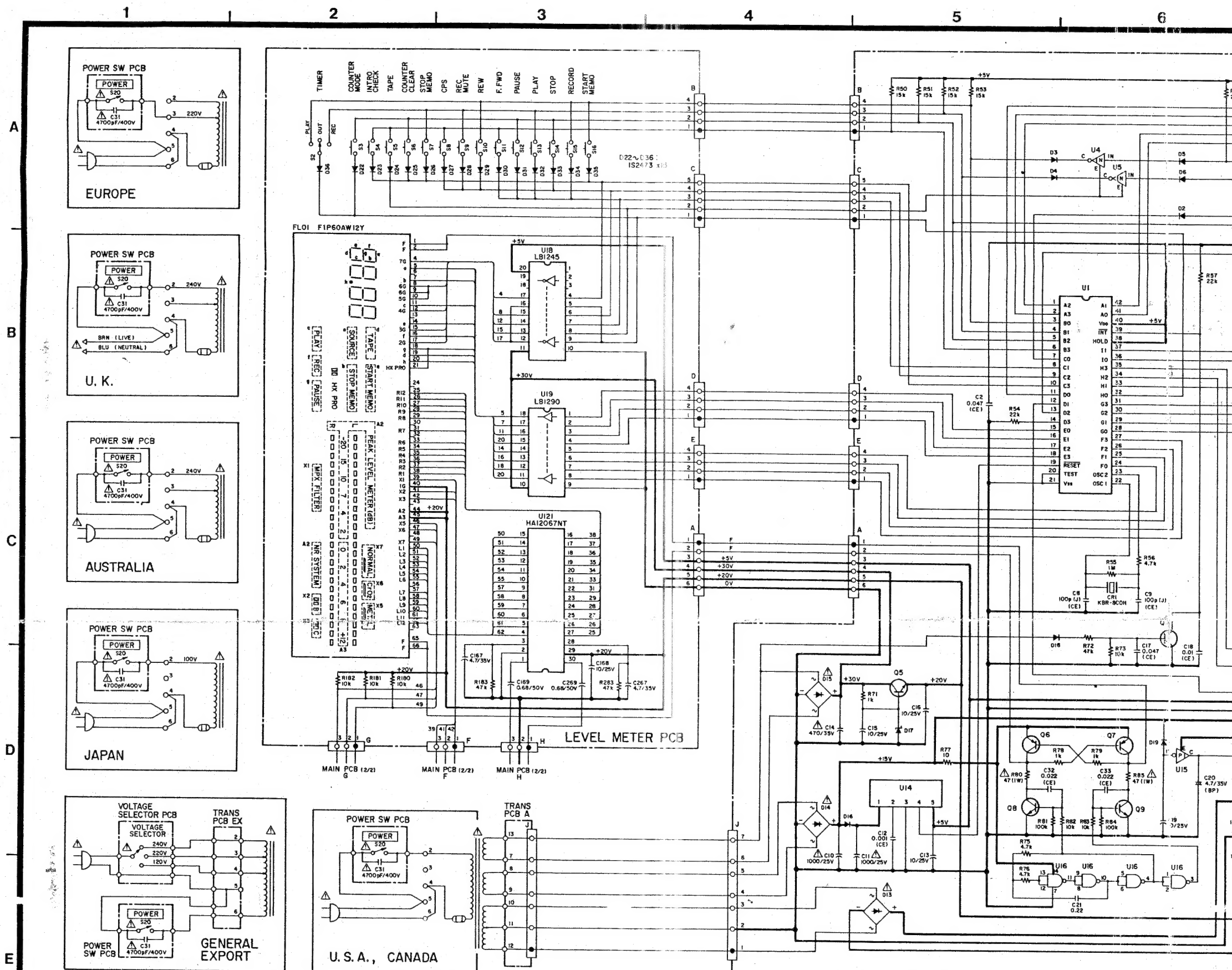
LEVEL METER PCB ASS.Y



MAIN PCB ASS'Y



TEAC SCHEMATIC DIAGRAM V-770



TEAC SCHEMATIC DIAGRAM V-770

